

Note: Page numbers in *italic* indicate illustrations; page numbers followed by t indicate tables.

- A**
- Abdominal abscess, 36
- Abdominal distention, 25 (see also Gastrointestinal disorders)
- bovine, 44–45
- in equine colic, 20
- Abdominal fat necrosis, 67–68
- Abdominal fluid analysis, 55
- Abdominal pain (see also Gastrointestinal disorders)
- bovine anterior, 54–56
- Abdominocentesis
- in abdominal abscess, 36
- in abdominal pain, 55
- in colic, 20–21, 21t, 58
- in equine cholelithiasis, 99
- in proximal enteritis, 24
- Abiotrophies, 248
- Abomasal disorders, 41–57 (see also Gastrointestinal disorders: bovine)
- Abomasal displacement
- left (LDA, twisted stomach), 48–50
- right (RDA), 50
- Abomasal impaction, 1S, 46
- Abomasal volvulus (abomasal torsion), 50–51
- Abscess
- abdominal, 36
- brain, 258
- in caseous lymphadenitis, 349–350
- “cotton-puff” pulmonary, 140
- dental, 8–9
- dermatologic, 387–388
- caseous lymphadenitis, 387
- chronic, deep-seated pectoral in horses (pigeon breast, Wyoming strangles), 301
- in equine Cushing’s disease, 232
- esophageal, 12
- hepatic, 102–103, 107
- in pyogranulomatous bronchopneumonia, 140
- in *Rhodococcus equi* diarrhea, 33
- vertebral body, 270–271
- Acepromazine, 31S
- Acer rubrum* (red maple) toxicosis, 329–331
- Acetate tape skin testing preparations, 376–377
- Acetonemia (clinical bovine ketosis), 217–218
- Achondroplasia, 308
- Acid–base disturbances (see also Metabolic disorders)
- in abomasal volvulus, 50–51
- acidemia, in premature foals, 439
- bovine lactic acidosis, 42–44, 158
- in renal disease, 358
- Acid indigestion (lactic acidosis), 42–44
- Acidosis, bovine lactic, 42–44, 158
- Acquired valvular heart disease, 179–184
- Acremonium coenophialum*, 382
- ACTH response test, 233 (see also Cushing’s disease)
- Actinobacillosis (wooden tongue), 2–3, 11
- Actinobacillus equi*, 183
- Actinobacillus equuli*, 31, 137
- Actinobacillus* (*Hemophilus*) *pleuropneumoniae*, 149–150
- Actinobacillus lignieresii*, 3
- Actinobacillus pyogenes*, 158
- Actinobacillus* sp., 453
- Actinomyces pyogenes*, 141, 183
- Actinomyces pyogenes* mastitis, bovine, d23
- Actinomycotic infection, 388–389
- actinomycosis (lumpy jaw), 1, 307–308, 388
- dermatophilosis (streptothricosis, rainscald), 388–389
- Activated charcoal, in arsenic toxicosis, 63
- Acute collagen necrosis (equine eosinophilic granuloma, nodular necrobiosis, collagenolytic granuloma), 407
- Acute diffuse peritonitis, 55
- Acute equine diarrhea syndrome (equine monocytic ehrlichiosis, Potomac horse fever), 27–28
- Acute perinatal asphyxia, 441–445
- Acute renal failure, in horses, 357–358
- Acute respiratory distress syndrome [ARDS, acute bovine pulmonary emphysema (ABPE), fog fever], 161–162
- Acute rumen impaction, 42–44
- Acute tubular necrosis, in cattle, 361–362
- Acute versus chronic hepatobiliary disease, 93
- Adenocarcinoma
- enzootic nasal, 116
- gastric, 241
- Adenoma
- parathyroid, 240
- thyroid, 239
- Adenopapilloma, nasal, 116
- Adenopathy, in equine influenza, 119
- Adenovirus, 32, 146
- bovine, 126
- equine, 122–123
- ADH (antidiuretic hormone), 234–235
- ADH response test, 234
- Adnexal ocular diseases, 291–293
- Adrenalectomy, 236
- Adrenal gland disorders, 235–237
- equine adrenal insufficiency, 236–237
- equine pheochromocytoma, 235–236
- Adult multicentric lymphosarcoma, 66–67
- Aerosol bronchotherapy, 160
- Aflatoxicosis, 106–107, 109
- Agalactia, contagious (*Mycoplasma mastitis*), 429
- Agammaglobulinemia, in horses, 351
- Agar gel immunodiffusion (AGID) test, 87, 336, 348
- Age
- equine gestational, 436–437
- parturient paresis (hypocalcemia, milk fever) and, 213
- AGID (agar gel immunodiffusion) test, 87, 336, 348
- Albendazole, 10S
- Alcelaphine BMC virus, 60
- Algae-related mastitis, bovine, 427–428
- Alkali disease, 383 (see also Selenium toxicosis)
- Alkalosis, hypochloremic metabolic, 24
- Allergic rhinitis, 115, 116, 125–126
- Allergy (see Dermatologic disorders; Hypersensitivity)
- Alveolar periostitis, 1
- Alveolitis, extrinsic (hypersensitivity pneumonitis, farmers’ lung), 160–161
- Ameloblastoma, 9
- American point horses, HYPP in, 225–226
- Amicarbalide, 333
- Amplitude (intensity), of heart sounds, 112
- Amprolium, 87
- Amyloidosis, in cattle, 362–363
- Anaphylaxis, in *Hypoderma* infestation, 400
- Anaplasma marginale centrale, 331
- Anaplasma marginale marginale, 331
- Anaplasmosis, 331–332
- Anemia
- aplastic, 340–341
- blood loss
- acute, 325
- chronic, 325–326
- classification of, 321–324, 322, 323
- clinical evaluation of, 321
- depression, 339–341
- anemia of chronic disease, 340
- in bone marrow dysfunction or dysplasia, 340
- nutritional deficiency, 339–340
- in organ dysfunction, 340
- diagnostic plan and laboratory tests for, 324–325

hemolytic, 326–339 (see also Hemolytic anemia)
 of horses, 326–331
 immune-mediated causes, 328–329
 infectious causes, 326–328
 toxic causes, 329–331
 of ruminants, 331–338
 immune-mediated causes, 335
 infectious causes, 331–335
 inherited congenital porphyria, 338
 in postparturient hemoglobinuria, 338
 toxic causes, 335–337
 in water intoxication, 337–338
 of swine, 338–339
 Anhidrosis, 242–243
 Aniridia, 294
 Anisocytosis, 323
 Anorexia, 14
 Anterior uveitis, 289
 Anthelmintics, 31–35–36
 adverse effects of, 331
 in lungworm, 151, 153, 154
 in sheep and goats, 86–87
 Anthrax, 129
 Antibiotic-associated enteritis, 28
 Antibiotic-related diarrhea, in foals, 31
 Antibiotics
 in anaplasmosis, 332
 in bacterial endocarditis, 184
 in bacterial meningitis, 250
 in bovine pneumonia, 142
 in bovine respiratory disease, 126
 in choke, 13
 in cholelithiasis, 99
 in COPD, 160
 in corneal ulceration, 285–286
 diarrhea related to, 73
 in equine influenza, 119
 in equine pneumonia, 138, 140
 in equine strangles, 130–131
 in ETEC, 69
 in mastitis, 423, 424–425
 in neonatal infection, 457
 in parasitic pneumonia, 153
 in pleuritis, 157
 in pneumonia, 147, 149, 155
 in salmonellosis, 27, 62
 Anticoagulants, 27
 in hyperlipidemia, 101
 in pleuritis, 157
 Antifungal agents, 392–393
 in corneal ulceration, 286
 Antiprostaglandins (see also specific drugs)
 in uveitis, 290
 Anxiety, in colic, 19
 Aortic rupture, 201
 Aortic valve insufficiency, 175, 181–182
 Aortoiliac thrombosis, 185–186
 Aphthovirus, 4
 Aplastic anemia, 340–341
 Appaloosa horses (see Breed predilections: horses)
 Appetite stimulants, 101
 Arab foal idiopathic seizure, 254–255
 Arabian horses (see Breed predilections: horses)
 ARDS [acute respiratory distress syndrome, acute bovine pulmonary emphysema (ABPE), fog fever], 161–162
 Arrhythmias, cardiac, 186–199 (see also Cardiac dysrhythmias)

Arsenic toxicosis, 63
 Arterial blood gas analysis, 159
 Arteritis, equine viral (EVA), 121–122, 294, 342–343
 Arthritis, neonatal septic, 454
 Arthritis-encephalitis, caprine (CAE), 269, 311, 429
 Arthrogryposis, 308
 Ascaris suum (roundworms), 84, 108–109
 Ascites, 94
 ASD (atrial septal defect), 175–176
 Aseptic pododermatitis, diffuse (laminitis, founder), 312–313
 Aspartate aminotransferase (AST) test, 302
 Aspergillus flavus, 106
 Aspergillus fumigatus, 427
 Asphyxia, acute perinatal, 441–445
 Aspiration pneumonia, 13
 Ataxia (see also Neurologic disorders and specific disorders)
 in cerebellar disease, 248
 enzootic (swayback), 269–270
 in Sorghum related cystitis, 275–276
 Atelectasis, in premature foals, 439
 Atrisia
 right ventricular, 179
 tricuspid, 179
 Atrial fibrillation, 192–195 (see also Cardiac dysrhythmias)
 Atrial septal defect (ASD), 175–176
 Atrophic rhinitis, 116–117
 Atropine, 13, 290
 Atropine challenge test, 159
 Aujeszky's disease (pseudorabies), 117, 129, 258–259
 Autothioglucose, 406
 Australian itch (psorergatic mange), 396–397
 Autoagglutination, 324
 AV block
 advanced second- and third-degree (complete block), 189–190
 first- and second-degree (incomplete block), 188–189
 AV valve insufficiency
 left (mitral regurgitation), 179–180
 right (tricuspid regurgitation), 180–181
 Azotemia (see Renal failure)

B

Babesia caballi, 326
 Babesia equi, 326
 Babesiosis (piroplasmosis)
 in horses, 326
 in ruminants, 332–333
 Bacillary hemoglobinuria (Clostridium haemolyticum), 106, 334 (see also Black disease)
 Bacillary mastitis, bovine, 428
 Bacillus pilosus, 101–102
 Bacterial causes of myocarditis, 203t
 Bacterial causes of stomatitis, 2t
 Bacterial culture, 378
 Bacterial endocarditis, 182–184
 Bacterial enteric disease, 31–32
 Bacterial infections (see also Diarrhea and specific diseases and organisms)
 abdominal abscess in, 36
 bovine foot rot, 309–310
 caseous lymphadenitis, 349–350

clostridial diarrhea, 28–29, 72, 81–82
 dermatologic, 387–391
 endocarditis, 182–184
 immune deficiency induced by, 352
 laminitis
 bovine, 312–313
 equine, 313–315
 neonatal, 453–459
 ovine foot rot, 315–317
 salmonellosis, 26–27, 33, 61–62, 65, 71–72
 urinary infections with, 364
 uveitis in, 290
 Bacterial meningitis (meningoencephalitis), 249–250
 in neonates, 458
 Bacteroides gingivalis, 7–8
 Bacteroides melaninogenicus, 310
 Baldy calf syndrome (inherited epidermal dysplasia), 412
 Balling gun injuries, 129, 131
 "Barker foals" (neonatal maladjustment syndrome, NMS), 249, 441–446
 Barn cramps, 274
 Barn itch (sarcoptic mange), 395–396
 Basophilic stippling (polychromasia), 322, 323
 Bastard (metastatic) strangles, 129
 Behavioral/personality changes, 255–262
 brain abscess, 258
 equine viral encephalitis, 260–261
 hypovitaminosis A, 262
 listeriosis, 257–258
 nervous coccidiosis, 256
 pseudorabies (Aujeszky's disease), 129, 258–259
 rabies, 259–260
 thromboembolic
 meningoencephalitis (TEME), 255–256
 yellow star thistle or Russian knapweed toxicity, 261–262
 Benzimidazole, 35 (see also Anthelmintics)
 BHV-2 (bovine herpesvirus-2), 385
 Big head disease (nutritional secondary hyperparathyroidism), 240–241
 Big knee (carpal joint enlargement), 317
 Bile acid concentration test, 95
 Bile acid therapy, 99
 Bilirubinemia, 322
 Biopsy
 liver, 96, 98, 99
 skin
 for immunofluorescence testing, 371
 for routine histopathology, 377
 Bismuth subsalicylate, 27
 Black disease (infectious necrotic hepatitis), 105–106, 334
 Blackleg (clostridial myositis), 305–306
 BLAD (bovine leukocyte adhesion deficiency), 351–352
 Bladder rupture, 368
 Bladder stones, 365–370
 Bleeding diathesis, 94
 Blindness, 295 (see also Ophthalmologic disorders)
 cortical, 295

moon (equine recurrent uveitis), 289–291
 night, 295
 in water intoxication, 337
 Blister beetles, cantharidin toxicity, 357
 Bloat (tympany, flatulent or wind colic)
 bovine (ruminal tympany), 46–48
 equine, 25–26
 in Hypoderma infestation, 399
 Block, heart (see Cardiac dysrhythmias)
 Blood cultures, in neonatal infection, 455–456
 Blood flow disturbances
 acquired valvular diseases, 179–184
 aortic valve insufficiency, 175, 181–182
 AV valve insufficiency
 left (mitral regurgitation), 179–180
 right (tricuspid regurgitation), 180–184
 bacterial endocarditis, 182–184
 pulmonary valve insufficiency, 182
 aortoiliac thrombosis, 185–186
 congenital cardiac diseases, 179–179
 atrial septal defect (ASD), 175–176
 patent ductus arteriosus (PDA), 175–177
 tetralogy of Fallot, 175, 177–179
 ventricular septal defect (VSD), 175–175
 jugular thrombophlebitis (JT), 184–185
 Blood typing, 329
 Blowflies, 201 (see also Fly-borne diseases; Parasitic infections)
 Bluetongue, 5–6, 116
 BLV (bovine leukemia virus), 348
 BLU (bovine malignant catarrh), 128
 Bone and joint diseases, 306–309 (see also Musculoskeletal disorders; Neuromuscular disorders)
 Bone marrow dysfunction, anemia in, 340–341
 Bone marrow examination, 325, 340–341
 Boophilus (see Tick-borne infections)
 Borborygmi, 20, 22
 Bordetella bronchiseptica, 116–117, 137
 Borrelia burgdorferi, 203
 Botulism, 11, 272–274
 Bovine adenovirus, 126
 Bovine gastrointestinal disorders, 41–77 (see also Cattle: gastrointestinal disorders of)
 Bovine ketosis
 clinical (acetone), 217–218
 nervous, 217
 secondary, 217
 subclinical, 218–219
 Bovine leukocyte adhesion deficiency (BLAD), 351–352
 Bovine leukosis (enzootic bovine leukosis), 66–67, 347–348
 Bovine lymphoma
 enzootic, 347–348
 sporadic, 347
 Bovine malignant catarrh (BMC, malignant catarrhal fever), 60, 125, 128

Bovine mastitis
 acute and peracute, 422–427
 Actinomyces pyogenes, 425
 coliform mastitis (acute mastitis, environmental mastitis), 422–424
 Mycoplasma, 426–427
 Nocardia, 425–426
 staphylococcal, 424–425
 streptococcal, 425
 algae-related, 427–428
 bacillary, 428
 Clostridium perfringens, 428
 fungal and yeast, 427
 Mycobacterium bovis, 427
 overview and diagnosis, 417–418
 Pseudomonas, 428
 subacute, 418–422
 staphylococcal, 420–422
 streptococcal, 418–420
 Bovine papular stomatitis (BPS), 7
 Bovine parainfluenza-3 (PI-3), 126–127, 141, 145
 Bovine porphyria, 411
 Bovine protoporphyria, 412
 Bovine respiratory disease complex (BRDC, shipping fever), 125, 143–146
 Bovine respiratory syncytial virus (BRSV), 127–128, 141
 Bovine rhinotracheitis, infectious, 127
 Bovine spastic paresis (Elso heel), 275
 Bovine spongiform encephalopathy (mad cow disease), 263
 Bovine stephanofilaria, 403–404
 Bovine ulcerative mamillitis (BHV-2), 384
 Bovine ultimobranchial (thyroid C-cell) tumor, 239
 Bovine virus diarrhea/mucosal disease (BVD/MD), 125
 Bovine virus diarrhea (pestivirus, BVD), 126, 141
 acute, 58–60
 chronic, 64
 pneumonia in, 141
 Brachycephaly (sow mouth), 9
 Brachygnathism (parrot mouth), 9
 Bracken fern toxicosis, 340
 Bradycardias, 188–191
 AV block, 188–190
 advanced second- and third-degree (complete block), 189–190
 first- and second-degree (incomplete block), 188–189
 sinus arrhythmia, sinoatrial block, and sinus arrest, 190–191
 Brain disorders (see also Neurologic disorders and specific disorders)
 of mature and growing animals, 250–262
 of newborn, 247–250
 Bran disease (nutritional secondary hyperparathyroidism), 240–241
 Brassica species, and hemolytic anemia, 335–336
 Braxi (Clostridium septicum infection), 85–86
 BRDC (bovine respiratory disease complex, shipping fever), 125, 143–146
 Breed predilections
 cattle
 Angus, 294

Bos indicus, 332
 Herefords, 286, 292, 293
 Holsteins, 248, 345, 412, 448
 Jerseys, 448
 Limousines, 294
 Simmentals, 2 H
 horses
 American point horses, 225–226
 Appaloosas, 294, 406, 410
 Arab foal idiopathic seizures, 254–255
 Arabians, 122, 248, 410, 411
 Belgians, 294
 Gotland ponies, 248
 Percherons, 411
 Quarter horses/Quarter horse crosses, 225–226, 274, 410, 412
 sheep
 abomasal emptying defect in
 Suffolk, 87
 Suffolk lambs, 308
 swine, Yorkshire, 248
 Broken mouth, 7
 Bromocriptine, in Cushing's disease, 234
 Bronchiolar lymphoid hyperplasia, 148–149
 Bronchodilators, 160
 Bronchopneumonia, pyogranulomatous, 140
 BRSV (bovine respiratory syncytial virus), 127–128, 141
 Brucella sp., 290
 Bullnose (necrotic rhinitis in swine), 117
 Burns, 379
 Butorphanol, 22
 BVD (bovine virus diarrhea, pestivirus), 58–60, 64, 126, 141
 BVM (bovine virus diarrhea/mucosal disease), 125
 C
 CAE (caprine arthritis-encephalitis), 269, 317, 429
 Calcium abnormalities, 309
 Calcium administration, 214–215, 224, 226
 Calcium carbonate urinary crystals, 366
 Calcium deficiency, 308
 Calcium metabolism, 240
 Calculi, urinary, 365–370
 Calf diptheria, 125, 131
 Calicivirus, in vesicular exanthema, 5
 California mastitis test, 419
 Calves (see also Neonatal disorders)
 colic in, 58
 hepatobiliary diseases of, 107–108
 hypomagnesemic tetany in, 223
 immune deficiency disorders of, failure of passive transfer, 350, 351, 446–453
 neonatal disorders in
 acute perinatal asphyxia, 441–446
 diarrhea, 68–73 (see also Diarrhea)
 failure of passive transfer (FPT), 446–451
 metabolic, 226–227
 neonatal maladjustment syndrome (NMS), 441–446
 septicemia and focal infection, 453–459

- nutritional myopathy in, 301–302
respiratory disorders in, enzootic pneumonia, 141–142
- Calving injury, obturator-sciatic paralysis, 277
- Campylobacter mucosalis*, 84
- Cancer eye, 410–411
- Candidal mastitis, 427
- Canola (see *Brassica* sp.)
- Cantharidin toxicity, 357
- Caprine arthritis-encephalitis (CAE), 269, 317, 429
- Caprine gastrointestinal disorders, 85–88 (see also Diarrhea; Goats; Parasitic infections; Weight loss)
- Carbuncle, 385–386
- Carcinoma
 ethmoid, 115
 parathyroid, 240
 squamous cell
 ocular, 292–293
 of skin, 409–410
 thyroid, 239
- Cardiac arrhythmias, 186–199 (see also Cardiac dysrhythmias)
- Cardiac bovine leukosis, 66–67
- Cardiac catheterization, 174, 176, 177
- Cardiac dysrhythmias, 181
 bradyarrhythmias, 188–190
 AV block
 advanced second- and third-degree (complete block), 189–190
 first- and second-degree (incomplete block), 188–189
 sinus arrhythmia, sinoatrial block, and sinus arrest, 190–191
 tachyarrhythmias, 191–199
 supraventricular, 191–197
 ventricular, 197–199
- Cardiac murmurs, 172t, 172–173 (see also Cardiovascular disorders; Valvular heart disease)
- Cardiac pacemakers, 190 (see also Cardiac dysrhythmias)
- Cardiac tamponade, 199
- Cardiomyopathy (see also Myocardial disorders)
 dilated, 179, 203–204
 etiology and diagnosis, ZO3–ZW
 inherited, 202
 ionophore-induced, 205–206
 nutritional cardiac myodegeneration (white muscle disease, mulberry heart disease), 206–207, 301–302
 treatment, 204
 versus myocarditis, 202–203
- Cardiotoxicosis, gossypol-induced, 204–205
- Cardiovascular disorders, 171–217
 blood flow disturbances, 174–186
 acquired valvular diseases, 179–184
 aortic valve insufficiency, 175, 181–182
 bacterial endocarditis, 182–184
 left AV valve insufficiency (mitral regurgitation), 179–180
 pulmonary valve insufficiency, 182
 right AV valve insufficiency (tricuspid regurgitation), 180–181
- aortoiliac thrombosis, 185–186
congenital cardiac diseases, 174–179
 atrial septal defect (ASD), 175–176
 patent ductus arteriosus (PDA), 175, 176–177
 tetralogy of Fallot, 175, 177–179
 ventricular septal defect (VSD), 174–175
 jugular thrombophlebitis (JT), 184–185
- cardiac dysrhythmias, 186–199
bradyarrhythmias, 188–190
 AV block
 advanced second- and third-degree (complete block), 189–190
 first- and second-degree (incomplete block), 188–189
 sinus arrhythmia, sinoatrial block, and sinus arrest, 190–191
 principles and classification of, 186–188, 187
 tachyarrhythmias, 191–199
 supraventricular, 191–197
 ventricular, 197–199
- myocardial, ZO2–ZO7
 etiology and diagnosis, 203–204
 gossypol-induced cardiotoxicosis, 204–205
 ionophore-induced
 cardiomyopathy, 205–206
 myocarditis versus
 cardiomyopathy, 202–203
 nutritional cardiac
 myodegeneration (white muscle disease, mulberry heart disease), 206–207, 301–302
 treatment, 204
- pericardial, 199–202
 cardiac tamponade, 199
 pathogenesis and principles, 199
 pericardial effusion, 199
 pericarditis
 in cattle, 200–201
 in horses, ZO1–ZO2
 in swine, 202
- Cardiovascular examination, 171–174, 172t
- Carpal joint enlargement (big knee), 317
- Caseous lymphadenitis (CLA), 349–350, 387
- Cataracts, 294
- Catarh, bovine malignant (BMC, malignant catarhal fever), 60, 12S, 128
- Catheterization
 cardiac, 174, 176, 177
 urinary, 361
- Cattle
 bluetongue in, 6
 breed predilections
 Angus, 294
 Bos indicus, 332
 Guernsey bulls, 274
 Herefords, 286, 292, 294
 Holstein-Friesian bulls, 274
 Holsteins, 248, 345, 412, 448
 Jerseys, 448
 Limousines, 294
 Simmentals, 294
- cardiovascular disease in (see Cardiovascular disease and specific diseases)
- foot and mouth disease in, 4
- gastrointestinal disorders specific to, 41–77
 of forestomach and abomasum, 41–57
 abomasal impaction, 46
 anterior abdominal pain, 54–57
 perforating abomasal ulcers with localized peritonitis, 56–57
 traumatic reticuloperitonitis (hardware disease), 54–56
 bleeding ulcers and erosions, 53–57
 type I, 53
 type II, 53–54
 bloat (ruminal tympany), 46–48
 hyperresonance, 48–52
 cecal dilation/cecal volvulus, 52–53
 left abomasal displacement (twisted stomach), 48–50
 right abomasal displacement (RDA), 50
 right abomasal volvulus (torsion), 50–51
 indigestion, 41–42
 lactic acidosis, 42–44, 158
 vaginal indigestion (Hoflund's syndrome), 44–46
 intestinal, 57–73
 diarrhea, 58–73 (see also Diarrhea)
 gastrointestinal pain (colic), 57–58
- hemolytic anemia in, 331–338
hepatobiliary diseases in, 102–108
 bacillary hemoglobinuria, 106
 black disease (infectious necrotic fascioliasis/satit), 106–106, 338, 103–105
 hepatic abscesses, 102–103
 hepatic lipidosis, 106
 hepatotoxicosis, 106–107
 aflatoxicosis, 106–107
 copper toxicosis, 107
 halothane toxicosis, 107
 P/A toxicosis, 107
 pyrrolizidine alkaloid (PA) toxicosis, 107
- immune deficiency disorders specific to, 351–352
 bovine leukocyte adhesion deficiency (BLAD), 351–352
 Chédiak-Higashi syndrome, 352
 failure of passive transfer, 350, 351, 446–453
 viral/bacterial infection induced, 352
- lameness in, 309–313
 digital dermatitis (hairy heel warts, strawberry foot rot), 311–312, 388
 foot rot (pasture foot rot, infectious pododermatitis, interdigital phlegmon, interdigital necrobacillus), 309–310
 horizontal or sand cracks, 313
 interdigital dermatitis, 313
 laminitis (founder, diffuse aseptic dermatitis, aseptic inflammation of corium), 312–313
- sole ulcer (pododermatitis circumspecta), 311
stable foot rot (underrun sole), 310–311
traumatic, 313
verruccose dermatitis, 313
- lymphatic diseases in, 347–348
mastitis in, 417–428 (see also Bovine mastitis)
- metabolic disorders specific to, 213–224 (see also Metabolic disorders and specific disorders)
 bovine ketosis
 clinical (acetoneuria), 217–218
 subclinical, 218–219
 downer cow syndrome (creeper cow), 215–216
 fat cow syndrome, 220–221
 hypomagnesemic tetany, 222–223
 parturient paresis (hypocalcemia, milk fever), 213–215
 postparturient hemoglobinuria, 216–217
- musculoskeletal disorders specific to, paralytic myoglobinuria (muscular dystrophy), 302–303
- neoplasia in, skin, 410–411
- neurologic disorders specific to (see also Neurologic disorders and specific disorders)
 bovine spongiform encephalopathy (mad cow disease), 263–264
 nervous coccidiosis, 256–257
 of newborn, 247–250
 periodic spasticity (barn cramps), 21d
 spastic paresis (Elso heel, bovine spastic paralysis), 275
 thromboembolic meningoencephalitis (TEME), 255–256
- ophthalmologic disorders specific to, infectious bovine keratoconjunctivitis (IBK), 287–288
- parasitic infections in
 babesiosis, 331–333
 Eperythrozoon wenyonii, 333
 pharyngeal obstruction in, 11
 pharyngeal phlegmon in, 10
 postparturient hemoglobinuria in, 331
- renal disease in, 361–364
 acute tubular necrosis, 361–362
 amyloidosis, 362–363
 pyelonephritis, 363–364
- respiratory disorders specific to
 acute pharyngitis, laryngitis, and tracheitis, 123–128
 bovine adenovirus, 126
 bovine malignant catarrh (BMC), 60, 12S, 128
 bovine respiratory syncytial virus (BRSV), 127–128, 141
 bovine virus diarrhea (pestivirus, BVD), 58–60, 126, 141
 infectious bovine rhinotracheitis (IBR), 124–126
 parainfluenza-3 (PI-3), 126–127, 141, 145
 laryngeal obstruction, 131–102
- lower tract, bovine respiratory disease complex (shipping fever, pneumonic pasteurellosis), 125, 143–146
 rhinitis, 117
 upper tract, 117, 123–128, 131–132
- skin disorders specific to
 baldy calf syndrome, 412
 bovine porphyria, 411
 bovine protoporphyria, 411
 bovine stephanofilaria, 403–404
 bovine ulcerative mammillitis (BHV-2), 385
 cowpox and pseudocowpox, 384–385
 hereditary, 411–412
 udder impetigo, 386–387
 urinary obstruction in, 366–370
 vesicular stomatitis (VSV infection) in, 3
- Cauda equina neuritis (polyneuritis equi), 277–278
- CBC (complete blood count), 324
 in premature foals, 440
- C-cell tumor of thyroid
 bovine, 239
 equine, 239
- Cecal dilation/cecal volvulus, 52–53
- Cellulitis, esophageal, 13
- Centaurea repens* (Russian knapweed) toxicity, 261–262
- Centaurea solstitialis* (yellow star thistle) toxicity, 261–262
- Cerebellar disease, 248–249
- neonatal syndromes, 248
postnatal syndromes, 248
- Cerebral cortical necrosis (polioencephalomalacia, PEM), 251–252
- Cerebral edema, neonatal, 444
- Cerebrospinal nematodiasis, 268–269
- Cervical vertebral malformation (CVM, wobbler disease, cervical stenotic myelopathy), 264–265
- Cestrum diurnum*, 241
- Chédiak-Higashi syndrome, 352
- Chemical-related cardiomyopathy, 203
- Chemical rumenitis, 43 (see also Lactic acidosis)
- Chemical trauma, 2
- Chest radiography, 174, 176, 177
- Chest trauma, 164
- CHF (chronic heart failure), 174 (see also Cardiovascular disorders)
- “Chinese letter” appearance of bacteria, 140
- Chlamydial pneumonias, 141, 147
- Chlamydial uveitis, 290
- Chlamydia psittaci*, 286
- Chloramphenicol, contraindications, 157
- Chlortetracycline, 332
- Choke (esophageal obstruction), 8, 11–13, 12t
- Cholelithiasis, equine, 99
- Cholelithotripsy, 99
- Cholestasis, 95 (see also Hepatobiliary diseases)
- Chorioretinitis (leg mange, symbiotic scab, scrotal mange, foot mange), 396
- Chronic disease, anemia of, 340
- Chronic eosinophilic gastroenteritis, 34
- Chronic heart failure (CHF), 174 (see also Cardiovascular disorders)
- Chronic obstructive pulmonary disease (COPD), 150, 158–160
- Chronic peritonitis, 55, 57
- Chronic pharyngitis, 123
- Chrysomya bezziana*, 400
- Circulatory evaluation, in colic, 19, 20t
- Claviceps purpurea*, 381–382
- CLA (visceral caseous lymphadenitis), 88
- Clorsulon, 10S
- Clostridial diarrhea, in neonatal calves, 12
- Clostridial myositis (clostridial myonecrosis, blackleg, malignant edema), 30S–Z06
- Clostridiosis, intestinal, 28
- Clostridium chauvoei*, 203
- Clostridium difficile*, 3Z
- Clostridium haemolyticum*, 106, 33d
- Clostridium novyi*, 105–106 (see also Black disease (infectious necrotic hepatitis))
- Clostridium perfringens*, 28–29, 3Z, 12Z
- in bovine mastitis, 428
 in neonatal swine, 81–82
 in sheep and goats
 type C, 85
 type D, 8S
 type A in yellow lamb disease, 33d–33S
- Clostridium tetani*, 271–272
- ENS disorders (see also Neurologic disorders and specific disorders)
- of brain
 in mature and growing animals, 250–262
 in newborn, Zd1–uo
 of spinal cord, 264–271
- Coagulation cascade, 344
- Coagulation tests, in hepatobiliary disease, 95–96
- Coagulative disorders, 344–346
 acquired, 345–346
 disseminated intravascular coagulation (DIC), 314, 346
- in hepatobiliary disease, 94–95, 346
 inherited, 345
 jugular thrombophlebitis and, 184
 vitamin-K-dependent factor inhibition, 345–346
 by sweet clover, 345
 by warfarin, 346
- Cobalt deficiency, 339–340
- Cobalt supplementation, in bovine ketosis, 218
- Coccidiosis
 bovine, 64–65
 in neonatal swine, 81
 nervous, 256
- Cochliomyia hominivorax*, 400
- Coital exanthema, equine (EHV-3), 385–386
- Colchicine, in chronic active hepatitis, 97
- Colic
 bovine
 in adult cattle, 57–58
 in calves, 58
 dental conditions in, 9
 equine, 19–26

- distention (spasmodic or gas colic), 23–24
 evaluation of, 19–21, 201
 flatulent (tympany, bloat, wind colic), 25–26
 large colon **impaction**, 22–23
meconium impaction, 21–22
medically manageable, 21–26
 proximal enteritis (anterior enteritis, duodenitis), 24–25
- Coliform mastitis** (acute mastitis, environmental mastitis)
 bovine, 422–424
 porcine, 429–430
- Colitis, nonspecific**, in feeder pigs, 82
- Colitis X**, 28
- Collagenolytic granuloma** (equine eosinophilic granuloma, acute collagen necrosis, nodular necrobiosis), 407
- Colostrum**, 72–73, 446–449 [see also Failure of passive transfer (FPT)]
 autoimmune effects of, 328
 bovine fed to sheep and hemolytic anemia, 335
 handling of, 448–449
 testing of, 450–451
- Combined immune deficiency syndrome (CID) of horses**, 350–351
- Complete** Mood count (CBC), 324
 in premature foals, 440
- Congenital** disorders (see also Neonates)
 cardiac, 174–179
 atrial **septal defect (ASD)**, 175–176
 patent **ductus arteriosus (PDA)**, 175, 176–177
tetralogy of Fallot, 175, 177–179
ventricular septal defect (VSD), 174–175
- neurologic, **manifestation** in adult animals, 250
 ocular, 293–294
- Congenital **porphyria**, inherited, 337
- Conjunctivitis**, 286–288
 infectious bovine
keratoconjunctivitis (IBK), 287–288
keratoconjunctivitis, 286–287
 in systemic disease, 294–295
- Contagious agalactia** (*Mycoplasma mastitis*), 429
- Contagious ecthyma** (contagious pustular dermatitis, *orf*), 6–7, 116, 384
- Coombs' test**, direct, 324
- Cooperia**, 63–64
- COPD** (chronic obstructive pulmonary disease), 150, 158–160
- Copper deficiency**, 308, 337, 339, 382–383
 primary, 68
 secondary (molybdenum toxicity), 68
- Copper toxicity**, 309, 336
- Corneal perforation**, 289
- Corneal ulceration**, 285–286, 439
- Coronavirus**, 32, 70–71
- Coronal blindness**, 295
- Corticosteroids**
 in adrenal insufficiency, 237
 in bovine ketosis, 218
 in cardiac arrhythmias, 192
- in chronic active hepatitis, 97
 contraindications, 101
 in COPD, 160
 in hepatic encephalopathy, 97, 97t
 in hypersensitivity, 405
 in hyphema, 289
 in mastitis, 423
 in myocarditis, 204
 in pemphigus, 406
 in premature foals, 440
 in urticaria, 404
- Corynebacterium pseudotuberculosis*, 87, 349–350, 386
- Corynebacterium renale*, 362, 364
- "Cotton-puff"** pulmonary abscess, 140
- Coumarol**, 345
- Cowpox**, 383
- Creepers** cows, 215–216
- Cryosurgery**
 in ocular carcinoma, 293
 in squamous cell carcinoma of skin, 410
- Cryptococcosis**, 115
Cryptococcus neoformans, 427
- Cryptosporidiosis**, 32, 71
Cryptosporidium parvum, 71
- Culicoides* sp., 405
- Culicoides* sp., 6
- Cushing's disease**
 diabetes secondary to, 231
 equine, 232–234
 vs. diabetes mellitus, 232
- Cutaneous lymphoma**, 347
- Cutaneous myiasis (blowflies)**, 401
- CVM** (cervical vertebral malformation) in horses (wobbles, cervical stenotic myelopathy), 264–265
- Cyproheptadine**, in **Cushing's disease**, 232
- Cystitis**, 364–365
Sorghum related, 275–276
- Cysts, dentigerous**, 7
- D**
- Decoquinate**, 87
- Decubital ulcers**, 438
- Degenerative myeloencephalopathy**, equine (EDM), 265–266
- Dehydrogenases**, in **hepatobiliary** disease, 95
- Demodectic mange**, 397
- Demodex* sp., 397
- Dental disorders**, 7–9
 ameloblastoma, 9
 colic and, 20
 of *homer*, 8–9
 infection, 8–9
 malocclusion, 9
 tooth anomalies, 8
 of ruminants, 7
 of sheep, 7–8
 dentigerous cysts, 7
 periodontal disease, 7–8
- Dentigerous cysts**, 7
- Depopulation**, 82
- Depression** anemias, 339–341
 anemia of chronic disease, 340
 in bone marrow dysfunction or dysplasia, 340
 nutritional deficiency, 339–340
 in organ dysfunction, 340
- Dermacentor andersoni**, 148
- Dermatitis** (see also Dermatologic disorders and specific disorders)

- contagious pustular (contagious ecthyma, *orf*), 6–7, 116, 384
- digital bovine (hairy heel warts, strawberry foot rot)**, 311–312, 388
- equine viral papular**, 385
- exudative (greasy pig disease, exudative epidermitis), 390–391
- interdigital, 313
- photodermatitis, 380–381
- primary contact, 379
- verruccose, 313
- Dermatologic culture**, 376
- Dermatologic disorders**, 375–416 (see also under Lameness)
- bacterial, 375–391
 abscess, 387–388
 caseous lymphadenitis, 387
 chronic, deep-seated **pectoral** in horses (pigeon breast, Wyoming strangles), 387
 actinomycotic infection, 388–389
 actinomycosis (lumpy jaw), 1, 307–308, 388
 dermatophilosis (streptothricosis, rainscald), 388–389
 erysipelas, 389–390
 exudative epidermitis (greasy pig disease, exudative dermatitis), 390–391
 folliculitis and furunculosis, 385–386
 udder impetigo, 386–487
 ulcerative lymphangitis, 386
 causes of urticaria, 405t
 diagnostic approach to, 375–378
 (see also Dermatologic evaluation)
- environmental and mechanical, 378–381
 chemical toxicosis, 380
 frostbite, 378–379
 photodermatitis, 380t, 380–381
 photosensitization, 380–381
 sunburn, 380
 primary irritant contact dermatitis, 379
- thermal injuries (burns), 379
- fungal, 391–394
 subcutaneous mycoses, 393–394
 equine sporotrichosis, 393
 phycomycosis (pythiosis, Florida horse leeches), 393–394
 superficial mycoses, 391–393
 hereditary, 411–412
 icterus (jaundice), 93
 immunologic, 404–407
 equine insect hypersensitivity (sweet itch, Queensland itch), 405
 pemphigus foliaceus, 406
 urticaria (hives, heat bumps, feed bumps), 404t, 404–405
- neoplastic, 408–411
 epithelial neoplasms:
 papillomatosis, fibropapillomatosis, warts, 408–409
 melanocytic neoplasms (melanomas), 411
 mesenchymal tumors (equine sarcoid), 410–411
 squamous cell carcinoma, 409–410
- nutritional, 381–383
- copper deficiency, 382–383
- ergotism, 381–382
- fescue toxicosis (fescue foot), 382
- selenium toxicosis, 383
- zinc deficiency, 382
- parasitic, 394–404
- demodectic mange**, 397
- fly-related, 399–401
 cutaneous myiasis (blowflies), 401
- hypoderma** infestation (warbles, grubs), 399–400
- screw worm** infestation, 4W–401
- helminth infestation**, 401–404
- bovine stephanofilariasis**, 403–404
- habronemiasis (summer sores), 401–402
- onchocerciasis**, 402–403
- oxuriasis (pinworms, threadworms), 403
- ked**, louse, and tick infestations, 397–398
- lice (pediculosis), 398
- sheep keds, 397–398
- ticks, 398–399
- mange, 394–397
 chorioptic (leg mange, symbiotic scab, scrotal mange, foot mange), 3%
 psoregatic (Australian itch, itch mite), 396–397
- psoroptic** (sheep scab, ear mange), 394–395
- sarcoptic** (barn itch, scabies), 395–396
- photodermatitis**, 93
- pruritus, 93
- unclassified or multifactorial, 407–408
 equine eosinophilic granuloma, 407
 equine **pastern** dermatitis (greasy heel, mud fever, verrucous dermatitis), 385, 407–408
- viral, 383–385
 bovine ulcerative **mamillitis** (BHV-2), 384
 contagious ecthyma (viral pustular dermatitis, sore mouth, *orf*), 6–7, 116, 384
- cowpox**, 383
- cutaneous manifestations of systemic diseases**, 385
- equine coital **exanthema**, 384–385
- equine viral papular dermatitis, 384
- goatpox**, 384
- horsepox**, 384
- ovine viral **ulcerative dermatosis**, 384
- pseudocowpox**, 383–384
- sheepox**, 384
- swinepox**, 384
- Dermatologic evaluation**, 375–381
 differential diagnosis, 375
 history and clinical findings, 375
 physical examination, 375
 techniques of, 375–378
 acetate tape preparations, 376–377
 bacterial culture, 378
 biopsy
 for immunofluorescence testing, 377
 for routine histopathology, 377

- dermatologic culture, 376
- Dermatophilus* preparations, 377
- Onchocerca* preparation, 377–378
- potassium hydroxide (KOH) preparations, 376, 392
- skin scraping, 375
- Wood's lamp examination**, 376
- Dermatoparaxia**, 412
- Dermatophilosis (streptothricosis, rainscald)**, 388–389
- Dermatophilus congolensis*, 388
- Dermatophilus* preparations, 377
- Dermatophytes**, 391–393
- Dermatosis** (see also Dermatitis; Dermatologic disorders)
- wine ulcerative, 385
- vegetans of **swine**, 412
- Dermoids**, eyelid, 294
- Desmopressin**, 235
- Detomidine**, 235
 suppression test, 233
- Diabetes insipidus**, 234–235
 nephrogenic, 234
- Diabetes mellitus**, 231–232
- Diaphragmatic flutters, synchronous (SDFs)**, 224–225
- Diaphragmatic hernia**, 12, 55, 163–164
- Diarhea**
 bovine, 58–73
 acute in adult **cattle**, 58–63
 arsenic toxicosis, 63
 bovine virus diarrhea (BVD), 58–60, 64, 126, 141
 rinderpest, 60–61
 salmonellosis, 61–62
 toxemia, 63
 winter dysentery, 62
- BVD/MD** (bovine virus diarrhea mucosal disease), 125
- in **neonates**, 68–73
 antibiotic-related, 73
 clostridial diarrhea, 72
 coronavirus diarrhea, 70–71
 cryptosporidiosis diarrhea, 71
 diet-related diarrhea, 72–73
 enterotoxigenic *Escherichia coli* (ETEC), 68–70
 giardiasis, 71
 infectious bovine rhinotracheitis, 73
 rotavirus diarrhea, 70
 salmonellosis, 71–72
 subacute to chronic in young and adult cattle, 63–68
 abdominal fat necrosis, 67–68
 bovine leukosis (enzootic bovine leukosis), 66–67
 chronic BVD, 64
 chronic parasitism, 63–64
 chronic salmonellosis, 65
 coccidiosis, 64–65
 John's disease (paratuberculosis), 65–66
 primary copper deficiency, 68
 secondary copper deficiency (molybdenum toxicity), 68
- equine, 26–34
 acute in **adult horses**, 26–27, 26–29
 antibiotic-related enteritis, 28
 colitis X, 28
 equine monocytic ehrlichiosis (Potomac horse fever), 27–28
- fungal enteritis, 29
- gastrointestinal ulceration (NSAID toxicity), 29
- intestinal clostridiosis, 28–29
- salmonellosis, 26–27
- in nursing foals, 29–32
 antibiotic-related, 31
 bacterial enteric disease, 31–32
 cryptosporidiosis, 32
 foal heat diarrhea, 29–30
 from mechanical irritation, 31
 nutritional diarrheas, 30–31
- Strongyloides westeri* infestation, 31
- viral enteritis, 32
- porcine**
 in feeder pigs, 82–84
 nonspecific colitis, 82
 parasitic, 84
- Ascaris suum*
Hyostromylus rubidus, 84
- Oesophagostomum*, 84
- Trichuris suis*, 84
- porcine proliferative enteropathy (PPE), 83–84
- postweaning coliform gastroenteritis** (ETEC subtype), 82–83
- salmonellosis, 83
- spirochetal diarrhea**, 82
- swine dysentery, 82
- in neonatal swine, 79–82
- Clostridium perfringens* enteritis, 81–82
- coccidiosis**, 81
- enterotoxigenic *Escherichia coli* (ETEC), 79–80
- hemagglutinating encephalomyelitis virus** (HEV, vomiting and wasting disease), 80–81
- rotavirus**, 80
- transmissible gastroenteritis** (TGE), 80
- in **sheep** and goats, 85–87
- Clostridium perfringens* type C, 85
- Clostridium perfringens* type D, 85
- Clostridium septicum* (braxy), 85–86
- die-related, 87
- intestinal helminthiasis, 86–87
- salmonellosis, 85
- toxicities, 87
- in **weanlings** and yearlings, 33–34
- in **hepatobiliary disorders**, 94
- neonatal, 82 (see also neonatal focal infection)
- Diazepam**, in hepatic encephalopathy, 96
- DIC** (disseminated intravascular coagulation), 314
- Dichelobacter nodosus*, 310, 311, 316
- Dictyocaulus amfieldi*, 150–151
- Dictyocaulus filaria*, 153–154
- Diet** (see also Diet-related disorders and Feed)
- in **afatoxicosis**, 107
- bowdignation** and, 41–42
- in lactic acidosis, 42
- in bovine foot rot, 310
- in cecal dilation/cecal volvulus, 53

- colonic impaction and, 22
diarrhea caused by, 72-73
esophageal obstruction and, 13
fat cow syndrome and, 220-221
in hepatic encephalopathy, 96
hypercalcemia and, 241
in hyperlipidemia, 100
iodine deficiency (goiter), 238
ketogenic, 218
in parturient paresis (milk fever), 215
primary protein energy malnutrition (starvation, emaciation)
malnutrition, 221-222
Die(-related disorders (see also Diet;
Feed; Toxicity; Toxicosis)
botulism, 272-273
coagulopathy related to **sweet**
clover, 345
dermatoses, 381-383
in copper deficiency, 382-383
in **ergotism**, 381-382
in **fescue toxicosis** (fescue foot),
382
in selenium **toxicosis**, 383
in zinc deficiency, 382
diarrhea in sheep and **goats**, 87
gossypol-induced cardiotoxicosis,
204-205
hypovitaminosis A, 262
leukoencephalomalacia (moldy corn
disease), 11, 264
nutritional deficiency anemia,
339-340
osteodystrophies, 309
selenium and vitamin E deficiency,
206-207
Shaker foal **syndrome** (botulism),
272-273
Sorghum cystitis and ataxia,
275-276
urinary calculi, 369
urticaria (**hives**), 404t, 404-405
vitamin E deficiency, 109, 206-207
yellow star thistle or Russian
knapweed toxicity,
261-262
- Diffuse aseptic pododermatitis**
(laminitis, founder),
312-313
- Digital dermatitis (hairy heel warts,
strawberry foot rot),
311-312, 388
- Digoxin, 1921, 198, 445
- Dilated cardiomyopathy, 179,
203-204
- Dilation, esophageal (megaesophagus),
12
- Dimethylsulfoxide (DMSO), 185, 249,
315, 362, 444
- Diminazene, 333
- Dioctyl sodium sulfosuccinate (DSS),
12
- Diphtheria, 337
- Diphtheria, calf, 125, 131
- Direct Coombs' test, 324
- Disseminated intravascular coagulation
(DIC), 314
- Distemper, equine (strangles),
129-131
- Distention
abdominal, 25
bovine, 44-45
in colic, 20
gastric, 25
Distention (gas, spasmodic) colic,
equine, 23-24
- Diuretics, 358, 445
- D-lactic acidosis, 42-44, 158
- DMSO, 185, 249, 315, 362
adverse effects of, 331
Donkeys (see also Equine; Horses)
lung worms in, 150
neonatal isoelectrolysis in, 328
Doppler echocardiography, 173-174
Downer cow syndrome (creeper cow),
215-216
- Draschia* megastoma, 401-402
- DSS (dioctyl sodium sulfosuccinate),
13
- Dubin-Johnson syndrome, 107-108
- Duodenitis (proximal enteritis), 24-25
- Dye excretion test, in liver disease, 95
- Dysentery
swine, 82
winter, 62
- Dysmaturity, 436-441 (see also
Neonatal disorders)
- Dysphagia, 9-14
differential diagnosis of, 9-10
in esophageal obstruction (choke),
11-13, 12t
in esophagitis, 13-14
in pharyngeal obstruction, 10-11
in pharyngeal paralysis, 11
in pharyngeal phlegmon, 10
pharyngitis, laryngitis, and
pharyngeal swelling and,
9-10
traumatic, 10
- Dysplasia, inherited epidermal (baldy
calf syndrome), 412
- Dyspnea, 131-132, 141 (see also
Cardiovascular disorders;
Pneumonia; Respiratory
disorders)
- Dysrhythmias, cardiac, 186-199 (see
also Cardiac dysrhythmias)
- Dystocia, 449 (see also Acute perinatal
asphyxia)
- E**
- Ear mange (psoroptic mange),
394-395
- ECG (electrocardiography), 173 (see
also Cardiac dysrhythmias)
- Echocardiography, 173-174 (see also
Cardiovascular disorders;
Valvular heart disease)
- Edamsia, in mares, 224-225
- Eahyma, contagious (contagious
pustular dermatitis, orf),
6-7, 116, 384
- Ectopic teeth, 8
- Ectopic ureter, 365
- Edema (see also Dysphagia)
in cardiovascular disease, 171 (see
also Cardiovascular
disorders)
malignant (clostridial myositis,
blackleg), 305-306
neonatal cerebral, 444
pharyngeal, 9-10
EDM (equine degenerative
myeloencephalopathy),
265-266
EDTA, in lead poisoning, 253
- Effusion
pericardial, 199
pleural, 155-157
- Ehrlichia equi, 343-344
- Ehrlichia risticii, 28
- Ehrlichiosis
equine, 343-344
equine monocytic (Potomac horse
fever), 27-28
- EHV (equine herpesvirus), respiratory,
120-121
- EIA (equine infectious anemia, swamp
fever), 326-327
- Eimeria* arloingi, 87
- Eimeria* bovis, 64
- Eimeria* ellipsoidalis, 64
- Eimeria* ovis, 87
- Eimeria* zuernii, 64
- EIPH (exercise-induced pulmonary
hemorrhage), 162-163
- Eisenmenger's complex, 175 (see also
Ventricular septal defect
[VSD])
- Electrocardiography (ECG), 173 (see
also Cardiac dysrhythmias)
- Electrolyte disorders, in renal disease,
358
- Elso heel (spastic paresis), 275
- Emaciation (see also Weight loss)
in protein energy malnutrition,
221-222
- Emphysema (see also COPD)
acute bovine pulmonary (ABPE,
ARDS), 161-162
subcutaneous, 161
- Empyema, guttural pouch, 130
- Encephalitis, equine viral, 260-261
- Encephalopathy
bovine spongiform (mad cow
disease), 263
hepatic, 93-94, 96, 263-264
hypoxic-ischemic of newborn
(neonatal maladjustment
syndrome, "Barker foals,"),
249, 441-446
- Endocrine disorders, 231-246 (see
also Gastrointestinal
disorders; Metabolic
disorders)
adrenal gland, 235-237
equine adrenal insufficiency,
236-237
equine pheochromocytoma,
235-236
anhidrosis, 242-243
diabetes mellitus, 231-232
evaluation of, 231
parathyroid gland, 239-242
nutritional secondary
hyperparathyroidism (NSH,
osteodystrophia fibrosa, big
head disease, bran disease,
Miller's disease), 240-241
primary hyperparathyroidism,
239-240
pseudohyperparathyroidism (PHT),
241-242
pituitary gland, 232-235
diabetes insipidus, 234-235
equine Cushing's disease,
232-234
in premature foals, 439
thyroid gland, 237-239
bovine ultimobranchial (thyroid C-
cell) tumor, 239
- equine
hyperthyroidism, 238
hypothyroidism, 237-238
thyroid tumors, 239
goiter (iodine deficiency), 238
- Enteric colibacillosis, 31-32
- Enteritis (see also Diarrhea)
antibiotic-associated, 28
- Clostridium perfringens*, in neonatal
swine, 81-82
- fungal, 29
- granulomatous (lymphocytic-
plasmacytic enteritis), 34
postweaning wiltform gastroenteritis
(ETEC subtype), 82-83
proximal (anterior enteritis,
duodenitis), equine, 24-25
transmissible gastroenteritis (TGE), in
neonatal swine, 80
- viral, 32
- Enterotoxemia, in sheep and goats
(*Clostridium perfringens*
type D infection), 85
- Enterotoxigenic *Escherichia coli*
(ETEC), 68-70, 79-80,
82-83
- Environmental skin disorders, 378-379
(see also Dermatologic
disorders)
- Enzootic ataxia (swayback), 269-270
- Enzootic bovine leukosis, 66-67
- Enzootic bovine lymphoma, 347-348
- Enzootic nasal adenocarcinoma, 116
- Enzootic pneumonia, in calves,
141-142
- Enzyme dehydrogenases, in
hepatobiliary disease, 95
- Eosinophilic gastroenteritis, chronic,
34
- Eosinophilic granuloma, equine
(nodular necrobiosis,
nodular collagenolytic
granuloma, acute collagen
necrosis, eosinophilic
granuloma), 407
- Eperythrozoonosis
of sheep, 333
of mine, 337-338
- Eperythrozoon ovis, 333
- Eperythrozoon wenyoni, 333
- EPH (equine purpura hemorrhagica),
129, 341-342
- Epidermal dysplasia, inherited (baldy
calf syndrome), 412
- Epidermatitis, exudative (greasy pig
disease, exudative
dermatitis), 390-391
- Epidermolysis bullosa, 412
- Epitheliogenesis imperfecta, 412
- Equine adenovirus, 122-123
- Equine adrenal insufficiency, 236-237
- Equine colic exanthema, 384-385
- Equine Cushing's disease, 232-234
- Equine degenerative
myeloencephalopathy
(EDM), 265-266
- Equine ehrlichiosis, 343-344
- Equine gastrointestinal disorders,
19-40 (see also under
Gastrointestinal disorders)
- Equine herpesvirus 1 (EHV-1)
myeloencephalitis, 268
- Equine hyperthyroidism, 238
- Equine hypothyroidism, 237-238
- Equine infectious anemia (swamp
fever), 326-327
- Equine Influenza virus infection,
118-120
- Equine insect hypersensitivity (sweet
itch, Queensland itch), 405
- Equine lymphosarcoma, 348-349
- Equine motor neuron disease, 274
- Equine pheochromocytoma, 235-236
- Equine protozoal myeloencephalitis
(EPM), 266-267
- Equine purpura hemorrhagica (EPH),
129, 341-342
- Equine rhinotracheitis, noninfectious,
123
- Equine rhinovirus (ERV), 122
- Equine sarwid, 410-411
- Equine sporotrichosis, 393-394
- Equine thyroid tumors, 239
- Equine viral arteritis (EVA), 121-122,
294, 342-343
- Equine viral encephalitis, 260-261
- Equine viral papular dermatitis, 384
- Equine viral rhinopneumonitis (EHV 4
and 1) infection, 120-121
- Ergotism**, 381-382
- ERV (equine rhinovirus), 122
- Erysipelas, 389-390
- Erysipelothrix rhusiopathiae*, 183
- Erythrocyte aggregation, 324
- Erythropoietin, 322 (see also Anemia)
- Escherichia aerogenes*, 422-423
- Escherichia coli*
enterotoxigenic (ETEC), 68-70,
79-80, 82-83
in mastitis, 422-423
in neonatal septicemia, 453
in pneumonia, 147-148
- Esophageal choke, 8
- Esophageal disorders, 9-14 (see also
Dysphagia)
- Esophageal examination, in colic, 20
- Esophageal perforation, 13
- Esophageal spasm, 12
- Esophageal stricture, 13, 14
- Esophagitis, 13-14
reflux, 14
traumatic ulcerative, 14
- Estrogen therapy, adverse effects of,
340
- ETC (enterotoxigenic *Escherichia coli*),
68-70, 79-80,
82-83
- Ethmoid carcinoma, 115
- Eubacterium suis*, 364
- EVA (equine viral arteritis), 121-122,
294, 342-343
- Exanthema, equine colic (EHV-3),
385-386
- Exercise-induced pulmonary
hemorrhage (EIPH),
162-163
- Exertional (post-exercise)
rhabdomyolysis, 303-304
- Extravascular lysis, 322
- Extrinsic alveolitis (hypersensitivity
pneumonitis, farmers'
lung), 160-161
- Exudative epidermolysis (greasy pig
disease, exudative
dermatitis), 390-391
- Eyelid abnormalities, in systemic
disease, 294
- F**
- Faciovestibular nerve dysfunction in
horses, 276
- Failure of passive transfer (FPT), 350,
351, 446-453
- Fallot, tetralogy of, 175, 177-179
- Farmers' lung (hypersensitivity
pneumonitis, extrinsic
alveolitis), 160-161
- Fasciola gigantica*, 103-104
- Fasciola hepatica*, 103-104, 105-106
- Fascioliasis (liver fluke infestation),
103-105
- Fascioloides magna*, 103
- Fat necrosis, abdominal, 67-68
- Fatty acidemia, 220
- Fecal blood, 54
- Fecal color change, in hepatobiliary
disorders, 94
- Fecal culture, for *Salmonella*, 27, 62
- Fecal flotation tests, 33
- Fecal occult blood test, 324
- Feed (see also Diet; Diet-related
disorders)
finely ground, 43
liquid, 72-73
refusal of, 8 (see also Anorexia)
respiratory distress and change of,
161
- Feed bumps, hives, urticaria), 404t,
404-405
- Ferrous fumarate poisoning, 102
- Fescue toxicosis (fescue foot), 382
- Fibrillation
atrial, 192-195
ventricular, 199
- Fibroblastic equine sarcoid, 410, 411
- Fibroepitheliomatosis, 408-409
- Fistulae, esophageal, 13, 14
- Flatulent colic (tympany, bloat, wind
colic), 25-26
- Florida horse leech (equine
sporotrichosis,
phycomycosis, pythiosis),
393-394
- Fluid analysis, peritoneal (see
Abdominocentesis)
- Fluid therapy
in abomasal volvulus, 51
in acute perinatal asphyxia,
445-446
- In colonic impaction, 23
in diarrhea, 69
in hepatic encephalopathy, 96
in hyperlipidemia, 100-101
- Flunixin meglumine, 22, 27, 142, 162,
290, 315, 423, 456
- Fluorescein dye staining test, 285
- Fluoride toxicity (fluorosis), 7, 309
- Fluoroquinolones, 457
- Fly-related diseases (see also Parasitic
infections)
anaplasmosis, 331-332
bluetongue, 6
cutaneous myiasis (blowflies), 401
Hypoderma infestation (warbles,
grubs), 399-400
- Queensland Itch (equine insect
hypersensitivity), 405
- screwworm infestation, 400-401
- sheep keds (*Melophagus ovinus* fly),
397-398
- Foal heat diarrhea, 29-30
- Foals**
adenovirus in, 123
- Arabian breed predilections, 248,
254-255
- bladder rupture in, 365-366
- diarrhea in nursing, 29-32 (see also
Diarrhea)
- endocrine mutation of, 437
- gestational age of, 436-437
- hypothyroidism ready for birth," 437
- neonatal disorders of, 435-465
- neonatal isoelectrolysis in, 328-329
- neonatal renal failure in, 358-359
- neurologic disorders specific to (see
also Neurologic disorders
and specific disorders)

- Dubin-Johnson syndrome, 107–108
 Gilbert's syndrome, 108
 hepatic abscesses, 107
portosystemic anomalies, 107
 treatment of, 96–97
 in hepatic encephalopathy, 96
intravenous fluid therapy in, 96
 pharmacologic, 97
 vitamin supplementation in, 97
 Hepatocellular versus cholestatic (obstructive) disease, 93
 Hepatosis dietetica, 109
 Hepatototoxicosis, 106–107 (see also **under Hepatobiliary disorders**)
Herd management, diarrheal infections and, 66
 Hereford cattle (see **Breed predilections: cattle**)
 Hernia, diaphragmatic, 12, 55, 163–164
 Herpesvirus
 bovine, 124–125
 bovine-2 (BHV-2), 385
 equine-1, 120–122, 268
 equine-4, 120–122
 equine-3 (EHV-3, equine coital exanthema), 385–386
 equine viral rhinopneumonitis (EHV-1 and 4), 120–121
 sheep-associated, 60
 Heterochromia, 294
 H N (hemagglutinating encephalomyelitis virus) (porcine vomiting and wasting disease), 80–81
 Hirsutism, 232
Hives (urticaria), 404t, 404–405 (see also Dermatologic disorders)
Hoflund's syndrome (vaginal indigestion), 44
 Holstein cattle (see **Breed predilections: cattle**)
 Homer's syndrome, 294
 Horsexox, 3 M
 Horses
 breed predilections
 American point horses, 225–226
 Appaloosas, 225–226, 294, 406, 410
 Arabians, 225, 248, 410, 411
 Belgians, 294
 Gotland ponies, 248
 Percherons, 411
 Quarter horses, 225–226, 270, 410, 412
 cardiovascular disease in (see **Cardiovascular disease and specific diseases**)
 dental disorders in, 8–9
 dermatologic conditions specific to equine coital exanthema (EHV-3), 385–386
equine viral papular dermatitis, 385
 horsexox, 385
 gastrointestinal disorders specific to colic, 19–26
 distention (spasmodic gas colic), 23–24
 evaluation of, 19–21, 20t
 flatulent (tympany, bloat, wind colic), 25–26
 large colon impaction, 22–23
 meconium impaction, 21–22
 medically manageable, 21–26
 proximal enteritis (anterior enteritis, duodenitis), 24–25
 diarrhea, 26–34 (see also **Diarrhea**)
 acute in adult horses, 26–29
 in nursing foals, 29–32
 in weanlings and yearlings, 33–34
 weight loss, 34–36
 in abdominal abscess, 36
 chronic eosinophilic gastroenteritis, 34
granulomatous enteritis (lymphocytic-plasmacytic enteritis), 3d
 lymphosarcoma, 34–35
 in parasitic disease, 35–36
 hemolytic anemias in, 326–331 (see also **under Hemolytic anemia**)
 hepatobiliary diseases in, 97–102
 of adult horses, 97–101
 cholelithiasis, 99
 hyperlipidemia, 99–102
 pyrrolizidine alkaloid (PA) toxicosis, 98–99
 serum hepatitis (Theiler's disease), 97–98
 uncommon, 102
 of foals, 101–102
 Tyzzer's disease, 101–102
 immune deficiency disorders of, 350–351
 agammaglobulinemia, 351
 combined immune deficiency syndrome (CID), 350–351
 failure of passive transfer (FPT), 350, 351, 446–453
 selective IgM deficiency, 351
 transient hypogammaglobulinemia, 351
 lameness in, 313–315
 laminitis, 313–315
 thrush, 313
 lymphatic diseases of, 348–349
mastitis in, 428
 metabolic disorders specific to
 hyperkalemic periodic paralysis (HYPP), 225–226
 hypocalcemia tetany (lactation tetany, eclampsia, transit tetany), 224–225
 musculoskeletal disorders specific to
 exercise (post-exercise, 303–304)
 neoplasms specific to, equine sarcoid, 410–411
 neurologic disorders specific to, 264–269
 cauda equina neuritis (polyneuritis equi), 277–278
 cerebrospinal nematodiasis, 268–269
 cervical vertebral malformation (CVM, wobbler disease, cervical stenotic myelopathy), 264–265
 equine degenerative myeloencephalopathy (EDM), 265–266
 equine herpesvirus 1 (EHV-1) myeloencephalitis, 268
 equine motor neuron disease, 274
 equine protozoal myeloencephalitis (EPM), 266–267
 equine viral encephalitis, 260–261
 faciovestibular nerve disease, 276
 leukoencephalomalacia (moldy corn disease), 17, 264
neuromuscular
 equine motor neuron disease, 274
 stringhalt, lathyrism, and shivering, 274–275
 Sorghum cystitis and ataxia, 275–276
 stringhalt, lathyrism, and shivering, 274–275
 yellow star thistle or Russian knapweed (*Centaurea* sp.) toxicity, 261–262
 ocular disorders specific to
 equine periorcular sarcoids, 291–292
 equine recurrent uveitis (periodic ophthalmia, moon blindness), 289–291
 pharyngeal obstruction in, 11
 quinidine toxicity in, 194–195, 196t
 race, let-down in, 236
 renal disease in, 357–361
 acute renal failure, 357–358
 chronic renal failure, 359–360
 neonatal, 358
 pyelonephritis, 360–361
 respiratory disorders in
 laryngeal obstruction, equine strangles, 129–131
 lower respiratory tract
 aspiration pneumonia, 154–155
 chronic obstructive pulmonary disease (COPD), 150, 158–160
 equine bacterial pneumonia, 143
 equine parasitic pneumonia, 150–151
 exercise-induced pulmonary hemorrhage (EIPH), 162–163
 pleuritis and pleural effusion, 155–157
 pharyngitis, laryngitis, and tracheitis, 117–123
 adenovirus infection, 122–123
 equine influenza virus infection, 118–120
 equine rhinovirus (ERV) infection, 122
 equine viral arteritis (EVA), 121–122, 294
 equine viral rhinopneumonitis (EHV 4 and 1) infection, 120–121
 rhinitis, 115
 thoracic
 diaphragmatic hernia, 163–164
 pneumothorax, 164
 upper tract, 115, 117–123, 129–131
 skin disorders specific to
 equine eosinophilic granuloma (nodular necrobiosis, nodular collagenolytic granuloma, acute collagen necrosis, eosinophilic granuloma), 407
 equine insect hypersensitivity (sweet itch, Queensland itch), 405
 equine pastern dermatitis (greasy heel, scratches, mud fever, verrucous dermatitis), 385, dOT-dOB
 equine sarcoid, 410–411
 equine sporotrichosis, 393
 folliculitis and furunculosis, 385–386
 habronemiasis (summer sores), 401–402
 hereditary, 412
 onchocerciasis, 402–403
 oxyuriasis (pinworms), 403
 pectoral abscess (pigeon fever, pigeon breast, Wyoming strangles), 387
 phycomycosis (pythiosis, Florida horse leech), 393–394
 reticulated leukotrichia, 412
 ulcerative lymphangitis, 386
 urticaria (hives), 404t, 404–405
 urinary obstruction in, 370
 vasculitis specific to, 341–344
 vesicular stomatitis (VSV infection) in, 3
 Howell-Jolly bodies, 323
 H₂ receptor antagonists, 54
 Hydranencephaly (normotensive hydrocephalus), 207
 Hydraulic flush, 3
 Hydrocephalus
 hypertensive, 207–208
 normotensive (hydranencephaly), 247
Hyostrius rubidus, 84
 Hypocalcemia, 2dO, 241, 349
 Hypercapnia, in premature foals, 439
 Hyperglycemia, 232 (see also **Diabetes mellitus**)
 Hyperhidrosis, 233
 Hyperimmune serum administration, in equine pneumonia, 140
 Hyperkalemia, 225
 Hyperkalemic periodic paralysis (HYPP), 225–226
 Hyperlipidemia, equine, 99–100
 Hypomagnesemia, 214 (see also **Hypocalcemia**)
 Hypometria, 248
 Hypertrophy, 20
 Hyperparathyroidism
 nutritional secondary (NSH, osteodystrophia fibrosa, big head disease, bran disease, Miller's disease), 240–241
 primary, 239–240
 pseudo- (PHT), 241–242
 Hyperphosphatemia, 240–241
 Hyperplasia
 bronchiolar lymphoid, 148–149
 lymphoid follicular, 11
 lymphoid (follicular pharyngitis), 123
 Hyperresonance, bovine, 48–52
 Hypersensitivity
 equine insect (sweet itch, Queensland itch), 405
 urticaria (hives), 404t, 404–405
 Hypersensitivity pneumonitis (extrinsic alveolitis, farmers' lung), 160–161
 Hyperthermia, malignant, in swine (porcine stress syndrome), 304–305
 Hyperthyroidism, equine, 238
 Hypertrophic pulmonary osteoarthropathy, 308–309
 Hypervitaminosis A, 308
 Hypohemia, 289
 Hypoalbuminemia, 34, 96
 Hypocalcemia, 240–241
 hypercalcemic tetany of mares (lactation tetany, eclampsia, transit tetany), 224–225
 in ruminants, (parturient paresis, milk fever), 213–215
 Hypochromasia, 322, 323
 Hypocuprenemia, 337, 339, 383
Hypoderma infestation (warbles, grubs), 399–400
Hypoderma lineatum, 47
 Hypogammaglobulinemia, transient, 351
 Hypoglycemia, 96
 bovine ketosis and, 217–218
 neonatal, 226–227
 in neonatal maladjustment syndrome (NMS), 249
 Hypokalemia, 24, 193
 Hypomagnesemia, 223–224, 242
 Hypomagnesemic tetany, in ruminants, 222–223
 Hypometria, 248
 Hypophosphatemia, 214, 216–217, 337 (see also **Hypocalcemia**)
 Hypoproteinemia, 34
 Hypothyroidism, equine, 237–238
 Hypotrichosis, 412
 Hypovitaminosis A, 262, 308
 Hypoxic-ischemic encephalopathy (neonatal maladjustment syndrome, "Barker foals"), 249, 439, 441–446
 HYPP (hyperkalemic periodic paralysis), 225–226
 IBR (infectious bovine rhinotracheitis), 124–126
 Ichthyosis, 412
 Icterus (jaundice), 93, 322 (see also **Dermatologic disorders; Hepatobiliary disorders**)
 Idiogenic osmotes, 254
IgG supplementation, in failure of passive transfer, 451–452
Ill-thrift syndrome in lambs, 333
 Imidocarb, 300
 Immune deficiency disorders (see also **Immunologic disorders**)
 failure of passive transfer (FPT), 350, 351, 446–453
 of horses, 350–351
 agammaglobulinemia, 351
 combined immune deficiency syndrome (CID), 350–351
 selective IgM deficiency, 351
 transient hypogammaglobulinemia, 351
 of ruminants, 351–352
 bovine leukocyte adhesion deficiency (BLAD), 351–352
 Chédiak-Higashi syndrome, 352
 viral/bacterial infection induced, 352
 Immune-mediated hemolytic anemia (see **under Hemolytic anemia**)
 Immunologic disorders (see also **Immune deficiency disorders**)
 granulomatous (lymphocytic-plasmacytic) enteritis, 34
 of skin, 404–407
 equine insect hypersensitivity (sweet itch, Queensland itch), dOS
 pemphigus foliaceus, 406
 urticaria (hives, heat bumps, feed bumps), 404t, 404–405
 Impaction
 abomasal, dS, 46
 acute rumen, 42–44
 larger colon, 22–23
 meconium, 21–22
 Impetigo, udder, 386–387
 Inclusion body rhinitis, 117
 Incontinence, urinary, 365
 Indigestion, bovine, 41–42
 Infarction, strangulating intestinal, 24
 Infections (see also **Mastitis; Bacterial infections and specific organisms and diseases**)
 dental, 8–9
 in equine Cushing's disease, 232
 fungal (see **Fungal infections and specific organisms and diseases**)
 immune deficiency induced by, 352
 neonatal, 453–459
 parasitic (see **Parasitic infections and specific organisms and diseases**)
 umbilical, 459–460
 Infectious bovine keratoconjunctivitis, 287–288
 Infectious bovine rhinotracheitis (IBR), 124–126 (IBR)
 Infectious causes of hemolytic anemia (see also **Hemolytic anemia**)
 in horses, 326–328
 in ruminants, 337–338
 Infectious necrotic hepatitis (black disease), 1 OS-106, 3 H
 Infectious pododermatitis, 309–310
 Infertility, in primary protein energy malnutrition (starvation), 221
 Influenza (see also **Respiratory disorders**)
 equine viral, 118–120
 porcine, 117
 Infundibulum, patent, 8–9
 Inherited congenital porphyria, 337
 Injury (see **Trauma**)
 insulin, 231–232
 in hyperlipidemia, 101
 Intensity (amplitude), of heart sounds, 172
 Intention head tremors, 248
 Interdigital dermatitis, 313
 Interdigital necrobacillosis, 309–310
 Interdigital phlegmon, 309–310
 Intermittent sinus arrest, 190
 Intestinal clostridiosis, 28
 Intestinal disorders (see **Gastrointestinal disorders and specific disorders**)
 Intracranial myiasis, 400
 Intraesophageal masses, 47
 Intravascular hemolysis, 321–322
 Intubation
 esophageal, 20
 gastric, 22
 nasogastric, 25
 orogastric, 47
 ruminal, 43

- Ionophore-induced cardiac myodegeneration**, 205–206
- Iron deficiency anemia**, 339
- Ischemic myopathy**, 304
- Isolation**, 27
- Isospora suis***, 81
- Isothenermia**, in **hypercalcemia**, 241
- Isoxsuprine hydrochloride**, 315
- Itch mite** (Australian itch, **psorergatic** mange), 396–397
- Ivermectin**, 35, 86, 339, 398 (see also **Anthelmintics**)
- Ixodes ricinus*** (see **Tick-borne infections**)
- Jaundice foal agglutination (JFA) test**, 328
- Jaundice (icterus)**, 93, 322 (see also **Hepatobiliary disorders**)
- law, lumpy (actinomycosis)**, 1, 307–308, 388
- Johne's disease (paratuberculosis)**
in **cattle**, 65–66
in **sheep and goats**, 87–88
- Joint diseases**, 306–309 (see also **Musculoskeletal disorders**; **Neuromuscular disorders**)
- Jugular thrombophlebitis (JT)**, 184–185
- Juvenile multicentric lymphoma**, 347
- K**
- Kale** (see ***Brassica* sp.**)
- Keratoconjunctivitis**, 286–287
infectious bovine (IBK), 287–288
- Ketosis, bovine**
clinical (**acetoneuria**), 217–218
nervous, 217
secondary, 217
subclinical, 218–219
- Kidney diseases**, 357–364 (see also **Renal disease**; **specific diseases**)
- pulpy (*Clostridium perfringens* type D infection)**, 85
- Kidney bones**, 365–370
- Kids**
hepatobiliary diseases of, 107–108
respiratory disorders in, 142
- Kingman tube**, 44
- Klebsiella mastitis***, 422–423
- Klebsiella pneumoniae***, 137
- KOH (potassium hydroxide) skin testing preparations**, 376, 392
- L**
- Lacerations**
corneal, 289
eyelid, 289
- Lack of menace response**, 248
- Lactation, mastitis during**, 419, 421
- Lactation tetany**, 223
in mares (**eclampsia**, **transit tetany**), 224–225
- Lactic acidosis, bovine (ruminal acidosis)**, 42–44, 158
- Lactulose**, in **hepatic encephalopathy**, 96
- Lambs** (see also **Sheep**)
hemolytic anemia in, yellow lamb disease, 334–335
- hepatobiliary diseases in**, 107–109
hepatobiliary diseases of, 107–108
ill-thrift syndrome in, 333
intestinal parasites in, 87–88
neonatal metabolic disorders in, 226–227
respiratory disorders in, pneumonia, 142
- Lameness**, 309–317 (see also **Musculoskeletal disorders**; **Neuromuscular disorders**)
in **cattle**, 309–313
digital dermatitis (hairy heel warts, strawberry foot rot), 311–312, 388
foot rot (pasture foot rot, infectious pododermatitis, interdigital phlegmon, interdigital necrobacillus), 309–310
horizontal or sand cracks, 313
interdigital dermatitis, 313
laminitis (founder, diffuse aseptic dermatitis, aseptic inflammation of corium), 312–313
sole ulcer (pododermatitis circumspecta), 311
stable foot rot (undermin sole), 310–311
traumatic, 313
verruccous dermatitis, 313
in **goats**, caprine arthritis-encephalitis (CAE), 269, 317, 429
in **horses**, 313–315
laminitis, 313–315
thrush, 313
Obel grades for, 314
in **sheep**, infectious foot rot, 315–317
versus hyperphosphatemia, 241
- Laminitis**, 27
bovine (**founder**, diffuse aseptic dermatitis, aseptic inflammation of corium), 312–313
equine, 313–315
larger colon impaction, 22–23
laryngeal obstruction, 129–132
bovine, 131–132
equine strangles, 129–131
ovine, caprine, and porcine, 132
- Laryngitis**, 9–10 (see also **Dysphagia**; **Respiratory disorders**)
- Lasalocid**, 87, 206
- Latex agglutination test**, 450
- Lathyrism**, 274–275
- Lawsonia intracellularis***, 84
- Laxatives**, in **colonic impaction**, 23
- LDA (left displacement of abomasum)**, 48–50
- Lead poisoning**, 252–254, 308
- Leg mange (chorioptic mange)**, 3%
- Leptospira hardjo***, 334
- Leptospira kennewicki* (formerly *pomona*)**, 334
- Leptospirosis**, 334
- Leukemia**, 349
- Leukocyte adhesion deficiency, bovine (BLAD)**, 351–352
- Leukoderma**, 403
- Leukoencephalomalacia (moldy corn disease)**, 11, 264
- Leukosis, bovine (enzootic bovine leukosis)**, 66–67, 347–349
- Leukotrichia**, reticulated of horses, 412
- Levamisole**, 86 (see also **Anthelmintics**)
- Lice (pedunculosis)**, 398
- Lifting devices**, 216
- Lipidosis, hepatic**, 106
- Liptak test**, 49
- Listeria monocytogenes***, 453
- Listeriosis**, 257–258
- Liver biopsy**, 96, 98, 99
- Liver disorders**, 93–113 (see also **Hepatobiliary disorders and specific diseases**)
- Liver enzyme studies**, 94–95, 95t
- Liver fluke infestation (fascioliasis)**, 103–105
- Lumpy jaw (actinomycosis)**, 1, 307–308, 388
- Lumpy wool disease**, 388
- Lung disorders** (see **Respiratory disorders**, **Thoracic disease**, **Pneumonia**)
- Lungworms**, 150–155
Lymphadenitis, 349–350
caseous (CLA), 88, 349–350, 387
Lymphangitis, ulcerative, 386
- Lymphatic disorders**, 347–350 (see also **Immune deficiency syndromes**)
bovine leukosis, 347–348
enzootic lymphoma, 347–348
sporadic lymphoma, 347
equine lymphosarcoma, 348–349
lymphadenitis, 349–350
lymphoproliferative and myeloproliferative, 347, 429
plasma cell myeloma, 349
- Lymph node bovine leukosis**, 66
- Lymphocytic-plasmacytic (granulomatous) enteritis**, 34
- Lymphoid hyperplasia**
bronchiolar, 148–149
follicular, 11
follicular pharyngitis, 123
- Lymphoma**
BLV-induced, 204
bovine
enzootic, 347–348
sporadic, 347
cutaneous, 347
juvenile multicentric, 347
thymic, 347
- Lymphosarcoma**, 11, 34–35, 241
bovine, 53
equine, 348–349
- M**
- Macrocytosis**, 322
- Mad cow disease (bovine spongiform encephalopathy)**, 263
- Magnesium ammonium phosphate calculi**, 367 (see also **Urolithiasis**)
- Magnesium disorders** (see **Hypermagnesemia**; **Hypomagnesemia**)
- Magnesium supplementation**, 224
in lead poisoning, 253
- Malformation syndromes, cerebellar**, 248
- Malignancy** (see **Neoplasms**; **Tumors**)
- Malignant catarrhal fever (bovine malignant catarrh, BMC)**, 60, 125, 128
- Malignant edema (clostridial myositis, blackleg)**, 305–306
- Malignant hyperthermia**, in swine (porcine stress syndrome), 304–305
- Malnutrition** (see also **Diet-related disorders**; **Weight loss**)
primary protein energy (starvation, emaciation), 221–222
- Malocclusion, dental**, 8–9
- Mammitis, bovine ulcerative (BHV-2)**, 385
- Mange**, 394–397
chorioptic (leg mange, symbiotic scab, scrotal mange, foot mange), 396
demodectic, 397
psorergatic (Australian itch, itch mite), 396–397
psoroptic (sheep scab, ear mange), 394–395
- sarcoptic** (barn itch, scabies), 395–396
- Maple leaf toxicosis**, 329–331
- Masses**
intraesophageal, 47
pharyngeal obstruction by, 11
- Mastitis**, 417–434
bovine, 417–428
acute and peracute, 422–427
Actinomyces pyogenes, 425
coliform mastitis (acute mastitis, environmental mastitis), 422–424
Mycoplasma, 426–427
Nocardia, 425–426
staphylococcal, 424–425
streptococcal, 425
algae-related, 427–428
bacterial, 428
Clostridium perfringens, 428
fungal and yeast, 427
Mycobacterium bovis, 427
overview and diagnosis, 417–418
Pseudomonas, 428
subacute, 418–422
staphylococcal, 420–422
streptococcal, 418–420
- California mastitis test**, 419
- equine, 428
- ovine and caprine, 429
- caprine arthritis-encephalitis mastitis (CAE), 269, 317, 429
- Mycoplasma* (contagious agalactia)**, 429
- Pasteurella haemolytica***, 429
- S. agalactiae***, 429
- Staphylococcus aureus***, 429
- porcine, 429–430
- MCHC (mean corpuscular hemoglobin concentration)**, 323
- MCH (mean corpuscular hemoglobin)**, 323
- MCV (mean corpuscular volume)**, 323
- Mechanical injury** (see also **Trauma**)
pharyngeal, 10
- Meconium impaction**, 21–22
- Mediastinal pleuritis**, 155
- Mediastinitis**, 13
- Megaesophagus**, 13
- Melanoma**, 411
- Melophagus ovinus***, 397–398
- Menigitis**
bacterial (meningococcal), 249–250
septic in neonates, 458
- Meningoencephalitis**
bacterial meningitis, 249–250, 458
thromboembolic (TEME), 255–256
- Mesothelioma, pericardial**, 201
- Metabolic alkalosis**, in proximal enteritis, 24
- Metabolic disorders**, 213–229 (see also **Endocrine disorders**)
equine, 224–226
hyperlipidemia, 226
hypocalcemic tetany of mares (lactation tetany, eclampsia, transit tetany), 224–226
neonatal, 226–227
neonatal hypoglycemia, 226–227
of ruminants, 213–224
bovine ketosis
clinical (acetoneuria), 217–218
subclinical, 218–219
downer cow syndrome, 215–216
fat cow syndrome, 220–221
hypomagnetic tetany, 222–224
parturient paresis (hypocalcemia, milk fever), 213–215
postparturient hemoglobinuria, 216–217
pregnancy toxemia of sheep, 219–220
primary protein and energy malnutrition (starvation, emaciation), 221–222
- Metastatic strangles (bastard strangles)**, 129
- Metastrongylus apri***, 154
- Metastrongylus putrescentiae***, 154
- Metastrongylus salmi***, 154
- Methemoglobin**, 324
- S-methyl cyneine sulfoxide**, 336
- Methylene blue**, 337, 366
- Metronidazole**, in pleural effusion, 157
- Microfilarial uveitis**, 290
- Microphthalmos**, 293–294
- Milk cultures**, 419
- Milker's nodules (pseudocowpox)**, 384–385
- Milk fever (hypocalcemia, parturient paresis)**, in ruminants, 213–215
- Miller's disease (nutritional secondary hyperparathyroidism)**, 240–241
- Mites** (see **Dermatologic disorders**; **Mange**)
- Mitral regurgitation (left AV valve insufficiency)**, 179–180
- M-mode echocardiography**, 173–174
- Mobitz block** (see also **Cardiac dysrhythmias**)
type II, 189
type I (Wenckebach), 188–189
- Mobitz type I (Wenckebach) block** (see also **Cardiac dysrhythmias**)
- Moldy corn disease (leukoencephalomalacia)**, 11, 264
- Molybdenum toxicity**, 68
- Monensin**, in coccidiosis, 87
- Monocytic ehrlichiosis, equine (Potomac horse fever)**, 27–28
- Moon blindness (equine recurrent uveitis)**, 289–291
- Moraxella equi***, 286
- Mucosal disease**, 59
- Mud fever**, 385, 388, 391–393, 407–408
- Muellerius capillaris***, 153–154
- Mulberry heart disease (acute enzootic muscular dystrophy)**, 206–207, 301–302
- Mules** (see also **Equine**; **Horses**)
neonatal **isocrythrolysis** in, 328
- Murmurs, cardiac**, 172, 172–173 (see also **Cardiovascular disorders**; **Valvular heart disease**)
- Muscle diseases**, 301–306 (see also **Musculoskeletal disorders**; **Neuromuscular disorders**)
- Muscle wasting**, in **Cushing's disease**, 232
- Muscular dystrophy**
acute enzootic, 301–302
of cattle (paralytic myoglobinuria), 302–303
subacute enzootic (white muscle disease), 206–207, 301–302
- Musculoskeletal disorders**, 301–320 (see also **Neuromuscular disorders**)
bone and joint diseases, 306–309
actinomycosis (lumpy jaw), 1, 307–308, 388
osteodystrophy, 308–309
osteomyelitis, 306–307
lameness, 309–317 (see also **Lameness**)
bovine, 309–313
caprine, 317
equine, 313–315
ovine, 315–317
- muscle diseases**, 301–306
- myopathy**
nutritional in young animals, 301–302
in older animals, 302–305
exertional (post-exercise) rhabdomyolysis in horses, 303–304
ischemic, 304
muscular dystrophy (paralytic myoglobinuria) of cattle, 302–303
porcine stress syndrome (PSS), pale soft exudative (PSE) pork, malignant hyperthermia, 304–305
- myositis**, 305–306
clostridial (clostridial myonecrosis, blackleg, malignant edema), 305–306
eosinophilic, 306
fibrotic myopathy, 306
ossifying myopathy, 306
parasitic, 306
neonatal limb deformities, 438
in premature foals, 439
- Mycobacteria* sp.**, in **myocarditis**, 203
- Mycobacterium bovis* mastitis**, 427
- Mycobacterium paratuberculosis***, 65–66, 87–88
- Mycoplasma agalactiae***, 286
- Mycoplasma hypopneumoniae***, 148–149
- Mycoplasma hyorhinis***, 149
- Mycoplasma uveitis***, 290
- Mycoplasma mastitis***
bovine, 426–427
in sheep and goats (contagious agalactia), 429
- Mycoplasma mycoides var mycoides***, 156
- Mycoplasma pneumoniae***, 141, 147
- Mycoplasma* sp.**, 156
in pericarditis, 202
- Myces** (see **Fungal infections**)
- Mycotic stomatitis**, 3

in nursing foals, 32
pneumonia, 150–151
protozoal myeloencephalitis, 266–267
Strongyloides westeri, 31
in weanlings and yearlings, 33
fascioliasis (liver fluke infestation), 103–105
fly-related, 399–401
cutaneous myiasis (blowflies), 401
Hypoderma infestation (warbles, grubs), 399–400
screwworm infestation, 400–401
ked, louse, and tick infestations, 397–398
lice (pediculosis), 398
sheep keds, 397–398
ticks, 398–399
leptospirosis, 334
of lower respiratory tract, 150–154
mange, 394–397
chorioptic (leg mange, **symbiotic scab**, **scrotal mange**, foot mange), 396
psorergatic (Australian itch, itch mite), 396–397
psoroptic (sheep scab, ear mange), 394–395
sarcoptic (barn itch, scabies), 395–396
in myocarditis, 203
Onchocerca cervicalis, 290
wine and caprine
intestinal heilmithiis, 86–87
pneumonia, 153–154
Pneumocystis carinii pneumonia, 140–141
porcine, 84
Ascaris suum (roundworms), 84, 108–109
Hyostrogylus rubidus, 84
Oesophagostomum, 84
pneumonia, 154
Trichuris suis, 84
uveitis in, 290
weight loss in, 35–36
Parathyroid gland disorders, 239–242
nutritional secondary
hyperparathyroidism (NSH, **osteodystrophia fibrosa**, big head disease, bran disease, Miller's disease), 240–241
primary hyperparathyroidism, 239–240
pseudohyperparathyroidism (PHT), 241–242
Parathyroid hormone, 309
Paratuberculosis (John's disease) in cattle, 65–66
in sheep and goats, 87–88
Paresis
parturient (hypocalcemia, milk fever), in ruminants, 213–215
spastic (Elso heel, bovine spastic paresis), 275
Pawnt mouth (brachygnathism), 9
Parturient paresis (hypocalcemia, milk fever), in ruminants, 213–215
Pastern dermatitis, equine (greasy heel, scratches, mud fever, verrucous dermatitis), 407–408, 485
Pastern folliculitis (greasy heel complex), 385, 407–408
Pasteurella haemolytica, 141, 144, 146

Pasteurella multocida, 116–117, 141, 144, 147–148
Pasteurella sp., 155–156, 453
Pasture foot mt. 309–310
Patent ductus arteriosus (PDA), 175, 176–177
Patent funiculum, 8–9
Patent urachus, 365, 438, 439, 460–461
PDA (patent ductus arteriosus), 175, 176–177
Pectoral abscess in horses (pigeon breast, Wyoming strangles), 387
Pedunculosis, 398
Pemphigus foliaceus, 406
PEM (polioencephalomalacia, cerebral conical necrosis), 251–252
Pentazocine, 22
Pericardial disease
cardiac tamponade, 199
mesothelioma, 201
pathogenesis and principles, 199
pericardial effusion, 199
pericarditis
in cattle, 200–201
in horses, 201–202
in swine, 202
Pericardiocentesis, 200
Perilla frutescens, 162
Perilla ketona, 162
Perinatal asphyxia, acute, 441–445
Periocular sarcoids, equine, 291–292
Periodic ophthalmia (equine recurrent uveitis, moon blindness), 289–291
Periodic spasticity of cattle (barn cramps), 274
Periodontitis, 7–9
Peripheral nerve disorders (see also Neuromuscular disorders)
cauda equina neuritis (polyneuropathy equi), 277–278
faciovestibular nerve disease in horses, 276
obturator-sciatic paralysis, 277
radial nerve paralysis, 276
Sorghum cystitis and ataxia, 275–276
spastic paresis (Elso heel, bovine spastic paresis), 275
suprascapular paralysis (sweeney), 276–277
Peritoneal fluid examination (see Abdominocentesis)
Peritonitis
in abomasal ulceration, 56–57
acute diffuse, 55
bovine, 54–56
chronic, 55, 57
Permax (O,P-DDD), in Cushing's disease, 234
Pestivirus (see Bovine virus diarrhea (BVD))
Petchial hemorrhage, 341–344
pH (see also Metabolic disorders)
in abomasal volvulus, 50–51
in blood, 47
Pharyngeal paralysis, 11
Pharyngeal phlegmon, 10
Pharyngitis, 9–10, 117–129 (see also Dysphagia)
bovine, 123–128
bovine adenovirus, 126
bovine malignant catarrh (BMC), 60, 125, 128
bovine respiratory syncytial virus (BRV), 127–128, 141
bovine virus diarrhea (pestivirus, BVD), 58–60, 126, 141
infectious bovine rhinotracheitis (IBR), 124–126
parainfluenza-3 (PI-3), 126–127, 141, 145
chronic, 123
equine, 117–123
viral arteritis (EVA), 121–122, 294
follicular (lymphoid hyperplasia), 123
~vine caprine, and porcine, 129
traumatic, 129
Phenamidin, 333
Phenothiazine, 87
Phenothiazine toxicosis, in horses, 329–331
Phenoxybenzamine, 315
Phenylbutazone, toxicity, 29
Pheochromocytoma, equine, 235–236
Phlegmon
interdigital, 309–310
pharyngeal, 10
Phosphorus abnormalities, 309.337
(see also Hyperphosphatemia; Hypocalcemia; Hypophosphatemia)
Phosphorus supplementation, 216, 217
Photodermatitis, 93
Photosensitization
hepatogenous, 381
porphyria, 381
primary, 380.380t
of unknown mechanism, 381
Phycomycosis (pythiosis, Florida hone leech), 393–394
Picomaviruses, Aphthovirus, 4
Pigeon breast/pigeon fever (equine pectoral abscess, Wyoming strangles), 387
Piglets (see also Porcine; Swine)
diarrhea in, 79–84
feeder pigs, 82–84
neonates, 79–82
neonatal metabolic disorders in, 226–227
nutritional myopathy in, 301–302
osteodystrophies in, 308
pneumonia in, 142–143
porcine endemic abortion and respiratory syndrome, 142–143
porcine reproductive and respiratory syndrome (PRRS), 142–143
viral, 142
Pigs (see Porcine; Swine)
Pinging on auscultation, 48–52, 57
(see also Hyperresonance)
Pinkeye (infectious bovine keratoconjunctivitis), 287–288
Pinworms (oxyuriasis), 403
Piperazine, 87 (see also Anthelmintics)
Piropasmosis (babesiosis), 326, 332–333
Pitch (frequency), of kart sounds, 172
Pitressin tannate, 235
Pituitary gland disorders, 232–235
diabetes insipidus, 234–235
equine Cushing's disease, 232–234

Pituitary tumors, 231
Placentitis, 458–459 (see also Neonatal disorders)
Plant toxicities (see also Diet-related disorders; Feed; Toxicity; Toxicosis)
cardiomyopathy, 203
hemoglobinuria, 216–217
hypercalcemia, 241
Plasma ammonia concentration test, 96
Plasma cell myeloma, 349
Plasma creatine phosphokinase (CPK) test, 302
Pleural effusion, 155–157
Pleuritis, 13, 55, 155–157
versus pericarditis, 201
Pneumocystis carinii, 140–141
Pneumonia
aspiration, 13, 154–155
as complication of strangler, 129
in diaphragmatic perforation, 55
in growing and mature animals, 143–150
bovine respiratory complex (shipping fever, pneumonia pasteuriosis), 125, 143–146
equine bacterial pneumonia, 143
ovine and caprine, 146–148
other bacterial, 147–148
pasteurellosis, 146–147
porcine, 148–150
contagious pleuropneumonia, 149–150
enzootic pneumonia, 148–149
metastatic (vena cava syndrome), 157–158
neonatal, 454 (see also Neonatal disorders: septicemia and focal infection)
parasitic, 150–153
bovine, 151–153
equine
lung worms, 150–151
parascaris migration in foals, 151
ovine and caprine, 153–154
porcine, 154
pyogranulomatous
bronchopneumonia, 140
vs. pericarditis, 201
in young animals, 137–143
calves, 141–142
bacterial agents, 142
viral agents, 141
foals, 137–141
bacterial pneumonias, 137–138
Actinobacillus equuli, 137
Bordetella bronchiseptica, 137
Klebsiella pneumoniae, 137
Rhodococcus equi, 137, 138–140
Streptococcus zooepidemicus, 137.138
Pneumocystis carinii, 140–141
viral pneumonia, 137
lamb and kids, 142
neonates, 137
piglets, 142–143
Pneumonitis, hypersensitivity (extrinsic alveolitis, fannet lung), 160–161
Pneumothorax, 164–165
Pododermatitis
circumspecta (sole ulcers), 311

diffuse aseptic (laminitis, founder, inflammation of corium), 312–313
infectious, 309–310
Points (sharpmouth edges), 8
Poisoning (see Toxicity; Toxicosis)
Polioencephalomalacia (PEM, cerebral conical necrosis), 251–252
Polychromasia (basophilic stippling), 322, 323
Polydipsia, 232, 233, 234, 359
psychogenic, 234
Polyneuritis equi (cauda equine neuritis), 277–278
Polyuria, 233, 234, 359
psychogenic, 234
Porcine endemic abortion and respiratory syndrome (PRRS), 142–143
Porcine mastitis, 429–430
Porcine proliferative enteropathy (PPE), 83–84
Porcine reproductive and respiratory syndrome (PRRS), 142–143
Porphyria, 381
bovine, 411
congenital inherited, 337
Porphyria, 7
Portosystemic anomalies, in ruminants, 107
Posterior uveitis, 289
Post-exercise rhabdomyolysis in horses, 303–304
Postparturient hemoglobinuria, 216–217.337
Postweaning coliform gastroenteritis (ETEC subtype), 82–83
Potassium chloride challenge test, 225–226
Potassium disorders (see Hyperkalemia; Hypokalemia)
Potassium hydroxide (KOH) skin testing preparations, 376, 392
Potassium hydroxide in equine
monocytic ehrlichiosis, 27–28
PPE (porcine proliferative enteropathy), 83–84
Pregnancy (see also Neonatal disorders)
bovine
abomasal impaction in, 45
hyperresonance in, 49
equine, conditions associated with high-risk, 435, 436t
ovine, toxemia of pregnancy in, 219–220
primary protein energy malnutrition (starvation) in, 221–222
Prelambing shearing, 147
Prematurity, 436–441, 437t (see also Neonatal disorders)
Primary hyperparathyroidism, 239–240
Primary protein energy malnutrition (starvation; emaciation), 221–222
P-R interval, 187
Protostrongylus rufescens, 153–154
Proteinuria, 359, 362 (see also Renal disorders)
Protoporphyrin, bovine, 412
Prototheca zopfii, 427–428
Protozoal infections (see Parasitic infections and specific disorders)

Protozoal myeloencephalitis, equine (EPM), 266–267
Proximal (anterior) enteritis, 24–25
PRRS (porcine reproductive and respiratory syndrome), 142–143
Pruritus, 93 (see also Dermatologic disorders)
Pseudocowpox, 383–384
Pseudohyperparathyroidism (PHT), 241–242
Pseudomonas mastitis, bovine, 428
Pseudomonas sp., 453
Pseudorabies (Aujeszky's disease), 117, 129, 258–259
Psorergatic mange (Australian itch, itch mite), 396–397
Psoroptic mange (sheep scab, ear mange), 394–395
PSS [porcine stress syndrome, pale soft exudate (PSE) pork, malignant hyperthermia], 304–305
Psychogenic polydipsia, 234
Psychogenic polyuria, 234
Pulmonary disorders (see Respiratory disorders and specific disorders)
Pulmonary hemorrhage, exercise-induced (EIPH), 162–163
Pulmonary osteoarthritis, hypertrophic, 308–309
Pulmonary stenosis, 178
Pulmonary surfactant deficiency, 439
Pulmonary valve insufficiency, 182
Pulmonic regurgitation, 181
Pulmonic stenosis, 176
Pulpy kidney disease (Clostridium perfringens type D infection), 85
Pulse rate, In colic, 19, 20t
Purpura hemorrhagica, 129, 130
equine (EIPH), 341–342
Pustular dermatitis, contagious (contagious ecthyma, orf), 6–7.1 16, 384
P waves, 187, 187
Pyelonephritis
in cattle, 363–364
in horses, 360–361
Pyogranulomatous bronchopneumonia, 140
Pyrolizidine alkaloid (PA) toxicosis, 98–99, 107
Pythiosis (phycomycosis, Florida hone leech), 393–394
Q
QRS complexes, 187, 187
Quality of heart sounds, 172
Quarter horses (see Breed predilections)
Queensland itch (equine insect hypersensitivity), 405
Quinidine, in cardiac arrhythmias, 192, 193–194, 195t, 197, 199
Quinidine toxicosis, 194–195, 196t
R
Rabies, 9, 11, 259–260
pseudo- (Aujeszky's disease), 117,

- Radial nerve paralysis, 276
 Rainscald (dermatophilosis, streptothricosis), 388–389
 Ranitidine, 29
 Rectal examination
 in abomasal volvulus, 50–51
 in cecal dilation/cecal volvulus, 53
 in colic obstruction, 22
 Red blood cell indices, 323t
 Red maple leaf toxicosis, 329–331
 Reflux, gastric, 24
 Reflux esophagitis, 14
 Regurgitation
 mitral (left AV valve insufficiency), 179–180
 pulmonic, 181
 tricuspid (right AV valve insufficiency), 180–181
 Renal disorders
 bovine, 361–364
 acute tubular necrosis, 361–362
 amyloidosis, 362–363
 pyelonephritis, 363–364
 equine, 357–361
 acute renal failure, 357–358
 chronic renal failure, 359–360
 neonatal, 358
 pyelonephritis, 360–361
 hypercalcemia in, 241, 242
 neonatal, 445
 nephrogenic diabetes insipidus, 234
 in pheochromocytoma, 235
 porcine, 364
 Renal failure, in horses
 acute, 357–358
 chronic, 359–360
 neonatal, 358–359
 Respiratory bovine leukosis, 66
 Respiratory disorders (see also Cardiovascular disorders)
 acute perinatal asphyxia, 441–446
 dysphagia in, 9
 of lower respiratory tract, 137–163
 (see also Pneumonia)
 noninfectious diseases, 157–163
 acute respiratory distress syndrome (ARDS, ABPE, fog fever), 161–162
 chronic obstructive pulmonary disease (COPD), 150, 158–160
 exercise-induced pulmonary hemorrhage (EIPH), 162–163
 hypersensitivity pneumonitis (extrinsic alveolitis, farmers' lung), 160–161
 metastatic pneumonia (vena cava syndrome), 157–158
 pleuritis and pleural effusion, 155–157
 pneumonia
 aspiration pneumonia, 154–155
 in growing and mature animals, 143–150
 parasitic pneumonia, 150–154
 in young animals, 137–143
 in premature foals, 439, 441–446
 of thorax, 163–174
 diaphragmatic hernia, 163–164
 pneumothorax, 164
 of upper respiratory tract, 115–135
 acute pharyngitis, laryngitis, and tracheitis, 117–129
 bovine, 123–128
 equine, 117–123
 ovine, caprine, and porcine, 129
 laryngeal obstruction, 129–132
 bovine, 131–132
 equine strangles, 129–131
 ovine, caprine, and porcine, 132
 rhinitis and nasal obstruction, 115–117
 bovine, 115
 equine, 115
 ovine and caprine, 115–116
 porcine, 116–117
 Respiratory distress syndrome of neonates, 176
 Respiratory rate, in colic, 19
 Respiratory syncytial virus, bovine (BRSV), 127–128, 141
 Retained deciduous teeth, 8
 Reticulated leukotrichia of horses, 412
 Reticulitis, traumatic (hardware disease), 18, 54–56
 Reticulocyte count, 322, 322t
 Reticulocytosis, 323
 Reticuloperitonitis, traumatic (TRP, hardware disease), 45, 54–56
 Retinal disorders (see also Ophthalmologic disorders)
 congenital, 294
 Retroviruses, bovine leukemia, 66–67
 Rhabdomyolysis, exertional (post-exercise) equine, 303–304
 Rhabdoviruses, vesicular stomatitis virus (VSV), 3
 Rhinitis
 allergic, 115, 116
 atrophic, 116–117
 bovine, 115, 117
 equine, 115
 acute, 115
 in fungal infections, 115
 ovine and caprine, 115–116
 porcine, 116–117
 necrotic (bullnose), 117
 Rhinopneumonitis
 equine 1 and 1, 120–122
 equine viral (EHV 4 and 1), 120–121
 Rhinopneumonitis, 115
 Rhinotracheitis
 infectious bovine, 73
 noninfectious equine, 123
 Rhinovirus, equine (ERV), 122
 Rhodococcus equi, 137, 138–140
 Rhodococcus equi diarrhea, 33–34
 Rickettsial infections (see Parasitic infections; Tick-borne diseases)
 Rifampin, in pyrogenulomatous bronchopneumonia, 140
 Right ventricular atresia, 179
 Rinderpest, 60–61
 Ringworm, 391–393
 Rolling, 49–50, 214
 Rotavirus, 32, 70
 in neonatal swine, 80
 Rouleaux, 324
 Roundworms (*Ascaris suum*) in swine, 84, 108–109
 R-R interval, 187
 Rumens, 42
 Rumen drinkers, 73
 Rumenitis, 158
 Rumenotomy, 44, 47
 Rumen overload, 42–44
 Rumen stasis, 50
 Ruminal (lactic) acidosis, 42–44, 158
 Ruminal tympany, 46–48
 Ruminants, 213–224 (see also Cattle; Goats; Sheep)
 hepatobiliary diseases in, 102–108
 of adults, 102–107
 bacillary hemoglobinuria, 106
 black disease (infectious necrotic hepatitis), 109–110, 334
 fascioliasis (liver fluke infestation), 103–108
 hepatic abscesses, 102–103
 hepatic lipidosis, 106
 hepatotoxicosis, 106–107
 aflatoxicosis, 106–107
 copper toxicosis, 107
 halothane toxicosis, 107
 PYA toxicosis, 107
 pyrrolizidine alkaloid (PA) toxicosis, 107
 of calves, lambs, and kids, 107–108
 congenital, 107–108
 Dubin-Johnson syndrome, 107–108
 Gilbert's syndrome, 108
 hepatic abscesses, 107
 portosystemic anomalies, 107
 immune deficiency disorders of, 351–352
 bovine leukocyte adhesion deficiency (BLAD), 351–352
 Chédiak-Higashi syndrome, 352
 viral/bacterial infection induced, 352
 metabolic disorders of (see also Metabolic disorders and specific disorders)
 Rupture
 aortic, 201
 bladder, 368
 in horses, 365
 urethral, 368
 Russian knapweed (*Centaurea repens*) toxicity, 261–262
 S
 Salmonella dublin, 61, 235
 Salmonella sp., dS3
 Salmonella typhimurium, 33, 61, 72, 85
 Salmonellosis, 31, 33
 in cattle, adult, 61–62
 chronic, 65
 equine, 26–27
 in feeder pigs, 83
 in neonatal calves, 71–72
 in sheep and goats, 85
 Salt poisoning (water deprivation), 254
 Sarcoids, equine, 410–411
 periocular, 291–292
 Sarcoptic mange (barn itch, scabies), 395–396
 Scabies (sarcoptic mange), 395–396
 Scrapie, 263
 Scratches, 385, 388, 391–393, 407–408
 Screwworm infestation, 400–401
 Scrotal mange (chorioptic mange), 396
 Seborrhea sicca, 403
 Seizure disorders, 251–255
 Arab foal idiopathic seizures, 254–255
 lead poisoning, 252–254
 polioencephalomalacia (PEM), cerebral cortical necrosis), 251–252
 salt poisoning (water deprivation), 254
 Seizures, in neonatal maladjustment syndrome (NMS), 444
 Selenium deficiency, 109, 206–207, 301–302
 Selenium toxicosis, 383
 Semen, bluetongue virus in, 6
 Septicemia, 129
 in erysipelas, 389–390
 meningitis in, 249–250, 458
 neonatal, 453–459
 in pneumonia, 137, 147
 in swine, 83
 Septic meningitis, 458
 Septic shock, neonatal, 455
 Serpulina hyodysenteriae, 82
 Serum, hyperimmune in pneumonia, 140
 Serum bilirubin tests, 95
 Serum electrolyte determination, 214
 Serum hepatitis, equine (Heiler's disease), 97–98
 Shaker foal syndrome, 272–273
 Shearing, prelambling, 147
 Sheep (see also Ruminants)
 bluetongue in, 5–6, 116
 bovine malignant catarrh in, 60
 breed predilections
 abomasal emptying defect in Suffolk, 87
 Suffolk lambs, 308
 cardiovascular disease in (see Cardiovascular disease and specific diseases)
 contagious ecthyma in, 6
 dental disorders in, 7–8
 dermatologic conditions specific to
 ovine ulcerative dermatosis, 385
 sheepox, 385
 foot and mouth disease in, 4
 gastrointestinal disorders in
 chronic weight loss, 87–88
 abomasal emptying defect in Suffolk sheep, 88
 paratuberculosis (John's disease), 87–88
 visceral caseous lymphadenitis (CLA), 88
 diarrhea, 85–87
 Clostridium perfringens type C, 85
 Clostridium perfringens type D, 85
 Clostridium septicum (braxy), 85–86
 diet-related, 87
 intestinal helminthiasis, 86–87
 salmonellosis, 85
 toxicities, 87
 hemolytic anemia in (see Hemolytic anemia; in ruminants)
 hepatobiliary diseases in, 102–108
 (see also Hepatobiliary diseases)
 of adults, 102–107
 of lambs, 107–109
 herpesvirus in, 60
 lameness in, infectious foot rot, 315–317
 mastitis in, 429
 metabolic disorders of
 hypomagnesemic tetany, 222–223
 parturient paresis (hypocalcemia, milk fever), 213–215
 pregnancy toxemia, 219–220
 primary protein energy malnutrition (starvation), 221–222
 neurologic disorders in, cerebellar disease, 248–249
 ophthalmologic disorders in (see Ophthalmologic disorders)
 parasitic infections in
 Eperythrozoon ovis, 333
 prelambling shearing of, 147
 respiratory disorders in
 lower respiratory tract
 other bacterial pneumonias, 147–148
 pasteurellosis, 146–147
 pneumothorax, 164
 upper UQ, 115, 129, 132
 skin disorders specific to
 caseous lymphadenitis (CLA), 387
 hereditary, 412
 lumpy wool disease, 388
 sheep keds, 397–398
 urinary obstruction in, 366–370
 Sheepox, 384
 Sheep scab (psoroptic mange), 394–395
 Sheer mouth, 9
 Shipping fever (bovine respiratory disease complex, BRDC), 125, 143–146
 Shivering, in horses, 274–275
 Shock, septic, neonatal, 455
 Silicate calculi, 367–368 (see also Urolithiasis)
 Simulium sp., 405
 Sinoatrial block, 190–191
 Sinus arrest, 190–191
 Sinus arrhythmia, sinoatrial block, and sinus arrest, 190–191
 Skeletal disorders (see Lameness; Musculoskeletal disorders; Neuromuscular disorders)
 Skin disorders, 375–416 (see also Dermatologic disorders and specific diseases)
 Skin scraping, 375
 S-methyl cysteine sulfoxide, 336
 Sneezing, 115 (see also Rhinitis)
 Sodium sulfate turbidity (SST) test, 450
 Solanum malacoxylon, 241
 Sorghum cystitis and ataxia, 275–276
 Sow hysteria, 226–227
 Sow mouth (brachycephaly), 9
 Spasm, esophageal, 12
 Spasmodic (distention, gas) colic, equine, 23–24
 Spasticity
 in cerebellar disease, 248
 periodic of cattle (barn cramps), 274
 Spastic paresis (Elso heel, bovine spastic paralysis), 275
 Spheroctysis, 323–324
 Spider syndrome (ovine hereditary chondrodysplasia), 308
 Spinal cord disorders, 264–271 (see also Under Neurologic disorders)
 equine, 264–269
 cerebrospinal nematodiasis, 268–269
 cervical vertebral malformation (CVM, wobbler disease, cervical stenotic myelopathy), 264–265
 equine degenerative myeloencephalopathy (EDM), 265–266
 equine herpesvirus 1 (EHV-1) myeloencephalitis, 120, 268
 equine protozoal myeloencephalitis (EPM), 266–267
 in food animals
 caprine arthritis-encephalitis (CAE), 269, 371, 429
 swayback (enzootic ataxia), 269–270
 vertebral body abscess, 270–271
 Spirochaeta innocens, 82
 Spirochetal diarrhea, in feeder pigs, 82
 Splaying in piglets, 308
 Splentitis, 55
 Sporadic bovine lymphoma, 347
 Sporotrichosis, equine, 393–394
 Squamous cell carcinoma
 ocular, 292–293
 of skin, 409–410
 SST (sodium sulfate turbidity) test, 450
 Stable foot rot (under sole), 310–311
 Staphylococcal folliculitis, 385–386
 Staphylococcal furunculosis, 385–386
 Staphylococcal mastitis, bovine, 420–422, 424–425
 Staphylococcus aureus, 420–421, 451
 in myocarditis, 203
 Staphylococcus hyicus, 390–391
 Staphylococcus sp., 386
 Staphylococcus suis, 203
 Starvation (primary protein energy malnutrition), 221–222
 Stenosis
 pulmonic, 176
 valvular, 181
 Stephanofilariasis, bovine, 403–404
 Step mouth, 9
 Stomatitis
 actinobacillosis (wooden tongue), 2–3
 bluetongue, 5–6
 bovine papular (BPS), 7
 contagious ecthyma (contagious pustular dermatitis, orf), 6–7, 11, 6, 384
 dysphagia in, 9
 etiology of, 1, 2t
 foot and mouth disease, 4t, 4–5
 infectious causes of, 2t
 mycotic, 3
 necrotic (oral necrobacillosis), 2
 swine vesicular disease, 4t, 5
 vesicular, 2–4, 4t
 viral types of, 4t
 Stomoxys calcitrans, 405
 Stones, kidney and bladder, 370–370
 Strangles, 11
 equine, 129–131
 metastatic (bastard strangles), 129
 Wyoming (pectoral abscess, pigeon fever, pigeon breast), 387
 Strangulating intestinal infarction, 24
 Strangulating versus nonstrangulating intestinal obstruction, 23–24
 Strawberry foot rot (hairy heel warts, digital dermatitis), 311–312, 388
 Streptococcal mastitis, bovine, 418–420, 425

- Streptococcal pneumonia, 147–148
Streptococcus agalactiae, 418–419
 (see also Mastitis)
Streptococcus dysgalactiae, 420 (see also Mastitis)
Streptococcus equi, 36, 121, 130, 183, 203
Streptococcus pneumoniae, 420
Streptococcus pyogenes, 420
Streptococcus sp.
 in bacterial endocarditis, 183
 in pericarditis, 202
Streptococcus uberis, 420 (see also Mastitis)
Streptococcus zooepidemicus, 36, 203, 420
 in foals, 131, 133
 Streptothricosis (dermatophilosis, rainscald), 388–389
- Stress**
 events causing in calves, 145
 and *Pasteurella haemolytica* infection, 144
 Stress syndrome, porcine, 304–305
 Stricture, esophageal, 13, 14
 Stringhalt, lathyrism, and shivering, 274–275
Strongyloides westeri infestation, 31
Strongylus edentatus, 33
Strongylus sp., 35–36
Strongylus vulgaris, 33
 Subacute enzootic muscular dystrophy (mulberry heart disease), 301–302
 Subpalpebral lavage, 286
 Sucralfate, 29
 Suffolk sheep, abomasal emptying defect in, 87
 Sulfamethazine, in coccidiosis, 87
 Summer sores (habronemiasis), 301–402
 Sunburn, 380
 Supernumerary teeth, 8
 Suprascapular paralysis (sweeny), 276–277
 Swamp fever (equine infectious anemia), 326–327
 Swayback (enzootic ataxia), 269–270
 Sweating
 excessive (hyperhidrosis), 233
 inability to (anhidrosis), 242–243
 Sweeny (suprascapular paralysis), 276–277
Sweet clover, coagulopathy related to, 345
Sweet itch (equine insect hypersensitivity), 101
- Swine**
 breed predilections, Yorkshire, 248
 cardiovascular disease in (see Cardiovascular disease and specific diseases)
 dermatologic conditions specific to, swinepox, 385
 eperythrozoonosis of, 338–339
 gastrointestinal disorders in, 79–84
 of intestines, 79–84 (see also Diarrhea)
 diarrhea in feeder pigs, 82–84
 diarrhea in neonatal swine, 79–82
 of stomach (gastric ulcers), 79
 hemolytic anemia in, 338–339
 hepatobiliary diseases in, 108–109
 aflatoxicosis, 109
 ascariasis, 108–109
 hepatitis dietetica, 109
 mastitis in, 429–430
 musculoskeletal disorders in, porcine stress syndrome [PSS, pale soft exudative (PSE) pork, malignant hyperthermia], 304–305
 neurologic disorders in, cerebellar disease, 248–249
 renal disease in, 364
 respiratory disorders in
 aspiration pneumonia, 154–155
 atrophic rhinitis, 116
 contagious pleuropneumonia, 149–150
 enzootic pneumonia, 148–149
 inclusion body rhinitis, 117
 necrotic rhinitis (bullnose), 117
 parasitic pneumonia, 154
 pleuritis and pleural effusion, 155–157
 pneumothorax, 164
 swine influenza, 117
 upper tract, 116–117
 skin disorders specific to dermatosis vegetans, 412
 exudative epidermitis (greasy pig disease, exudative dermatitis), 390–391
 urinary tract disorders in, 364–370
 vesicular stomatitis (VSV infection) in, 3
 Swine dysentery, 82
 Swine influenza, 117
 Swinepox, 385
 Swine vesicular disease, 412
 Symbiotic scab (chorioptic mange), 396
 Synchronous diaphragmatic flutter (SDFs), 224–225
- Tachyarrhythmias**
 supraventricular, 191–197
 atrial tachycardia, 191–192
 ventricular
 ventricular fibrillation, 199
 ventricular premature depolarizations, 197–199
 Tamponade, cardiac, 199
 Tapeworm, 86–87
 TAT (tetanus antitoxin), 272
 Teat lesions, in foot and mouth
- Teeth** (see also Dental disorders)
 ectopic, 8
 retained deciduous, 8
 sharp edges (points), 8
 supernumerary, 8
 wolf, 8
 TEME (thromboembolic meningoencephalitis), 255–256
 Temperature, in colic, 19
Tenesmus, in hepatobiliary disorders, 94
Tetanus, 271–272
 Tetanus antitoxin (TAT), 272
 Tetany
 hypocalcemic, in mares (lactation tetany, eclampsia, transit tetany), 224–225
 hypomagnesemic
 in calves, 223
 in ruminants, 222–223
 lactation, 223
- Tetracycline**, 28
 adverse effects of, 331
 Tetralogy of Fallot, 175, 177–179
 Theiler's disease (equine serum hepatitis), 97–98
Thermal injuries (burns), 379
 Thiabendazole, 87 (see also Anthelmintics)
 Thiamine, in lead poisoning, 253
 Thoracic diseases (see also Pneumonia)
 diaphragmatic hernia, 163–164
 pneumothorax, 164–165
 Thoracic radiography, 174, 176, 177
 Thoracocentesis, 156–157
 Thoracotomy, 157
 Threadworms (oxyuriasis), 403
 Thrill, cardiac, 172
 Thrombocytopenia, 344
 Thromboembolic meningoencephalitis (TEME), 255–256
 Thrombophlebitis, jugular (JT), 184–185
 Thrombosis, aortoiliac, 185–186
 Thrush
 equine, 313
 human (mycotic stomatitis), 3
 Thymic lymphoma, 347
 Thyroid function tests, 237–238
 Thyroid gland disorders, 237–239
 bovine ultimobranial (thyroid C-cell) tumor, 239
 equine hyperthyroidism, 238
 equine hypothyroidism, 237–238
 equine thyroid tumors, 239
 goiter (iodine deficiency), 238
 Thyroid status, of foals, 437
 Tiamulin, 149
 Tick-borne infections, 399 (see also Parasitic infections)
 anaplasmosis, 331–332
 babesiosis, 326, 332–333
 eperythrozoonosis, 333
 of swine, 338–339
 equine ehrlichiosis, 343–344
 Tinea, 391–393
 Togaviridae, 59 (see also Bovine virus diarrhea (BVD))
 Torsion, abomasal, 50–51
 Total serum protein (TSP) test, 131
 Toxemia
 pregnancy of sheep, 219–220
 in proximal enteritis, 24
 Toxic indigestion (lactic acidosis), 42–44, 158
- Toxicity**
Brassica sp., 335–416
Centaurea repens (Russian knapweed), 261–262
Centaurea solstitialis (yellow star thistle), 261–262
 copper, 309, 336
 feed, 161–162
 ferrous fumarate poisoning, 102
 fluoride (fluorosis), 7
 lead, 252–254, 308
 molybdenum, 68
 NSAID, 29
 onion, 331, 336
 organophosphate, 1
 renal of medications, 357
 salt (water deprivation), 254
 in sheep and goats, 87
 Toxicosis
 arsenic, 63
 bracken fern, 340
 dermatologic effects, 380
- fluorine, 309
 gossypol-induced cardiotoxicosis, 204–205
 nitrate/nitrite, 336–337
 oxidative (red maple leaf, onion, phenothiazine), 329–331
 pyrrolizidine alkaloid (PA), 98–99, 107
 quinidine, 194–195, 196
 selenium, 383
 vitamin D, 242
 warfarin, 346
 Tracheitis (see under Respiratory diseases)
 Transient hypogammaglobinemia, 351
 Transit tetany, 224–225
 Transmissible gastroenteritis (TGE), in neonatal swine, 80
 Transtracheal aspiration, 142
 Transtracheal wash, 139, 140
 Trauma
 bovine, intestinal, 57–58
 chemical, 2
 neurologic, 250–251
 ocular, 288–289
 oral, 1–2
 thermal (burns), 379
 thoracic, 164
 Traumatic dysphagia, 10
 Traumatic hepatitis, 55
 Traumatic lameness, 313
 Traumatic pharyngitis, 129
 Traumatic reticuloperitonitis (TRP, hardware disease), 45, 50–56
 Traumatic ulcerative esophagitis, 14
 Tremors, intention head, 248
Trichophyton sp., 390–391
Trichostrongylus, 63–64
Trichuris suis, 84
 Tricuspid atresia, 179
 Tricuspid regurgitation (right AV valve insufficiency), 180–181
 Trimethoprim-sulphadiazine, in equine pneumonia, 138
 Trocarization, in tympany, 25–26
 TSH response test, 238
 Tubulointestinal renal disease, 360
- Tumors**
 C-cell (ultimobranial) of thyroid, 239
 equine periocular sarcoids, 291–292
 equine pheochromocytoma, 235–236
 equine thyroid, 239
 lymphoma, 347–348
 lymphosarcoma, 348–349
 melanocytic neoplasms (melanomas), 411
 mesenchymal tumors (equine sarcoids), 410–411
 ocular squamous cell carcinoma, 292–293
 of pars intermedia, 234
 pituitary, 231
 plasma myeloma, 349
 squamous cell carcinoma, 409–410
 T waves, 187, 187
 Twisted stomach (left abomasal displacement), 48–50
 Two-dimensional echocardiography, 173–174
 Tylosin tartrate, 142, 149
 Tympany (flatulent colic, bloat, wind colic), 25–26, 46–48
 Tyzzer's disease, 101–102
- U**
 Udder impetigo, 386–487
 Ulcerative dermatosis, ovine, 385
 Ulcerative esophagitis, traumatic, 14
 Ulcerative lymphangitis, 386
 Ulcerative mamillitis, bovine (BHV-2), 385
 Ulcers/ulceration
 abomasal, 53–57
 in actinobacillosis (wooden tongue), 2
 corneal, 285–286, 439
 decubital, 438
 gastric, porcine, 79
 gastrointestinal (NSAID toxicity), 29
 oral, 29
 perforating abomasal, 56–57
 sole ulcer of cattle (pododermatitis circumscripta), 311
 in vesicular stomatitis, 3, 4
 Ultimobranial (thyroid C-cell) tumor, 239
 Ultrasonography, hepatic, 96
 Umbilical disorders, 459–461
 hemorrhage, 461
 patent urachus, 365, 438, 439, 459–461
 umbilical remnant infection, 459–460
 Underrun sole (stable foot rot), 310–311
 “Unready for birth” foals, 437
 Urachus, patent, 365, 438, 439, 460–461
 Ureaplasma, 141
 Ureter, ectopic, 365
 Urethral rupture, 368
 Urethrostomy, 369
 Urinalysis
 in anemia, 324–325
 in renal disease, 358
 Urinary calculi, 365–370
 Urinary incontinence, 365
 Urinary tract disorders
 lower, 365–370
 bladder rupture in horses, 365
 cystitis, 364–365
 ectopic ureter, 365
 obstructive urolithiasis, 365–370
 patent urachus, 365, 438, 439, 460–461
 urinary incontinence, 365
 Sorghum cystitis and ataxia, 275–276
 upper, 365–370 (see also Renal disease and specific diseases)
 Urine color, in hemolytic disease, 322
 Urolithiasis, obstructive, 365–370
 Urticaria (hives, heat bumps, feed bumps), 404, 404–405
 Uveal diseases, 289–291
 Uveitis
 anterior, 289
 equine recurrent (periodic ophthalmia, moon blindness), 289–291
 neonatal, 181
 posterior, 289
- V**
 Vagal indigestion, bovine, 44
 Valvular heart disease
 acquired, 179–184
 aortic valve insufficiency, 175, 181–182
 bacterial endocarditis, 182–184
 left AV valve insufficiency (mitral regurgitation), 179–180
 pulmonary valve insufficiency, 182
 right AV valve insufficiency (tricuspid regurgitation), 180–181
 congenital, 174–179
 atrial septal defect (ASD), 175–176
 patent ductus arteriosus (PDA), 175–177
 tetralogy of Fallot, 175, 177–179
 ventricular septal defect (VSD), 174–175
 Vascuilitis, in horses
 equine ehrlichiosis, 343–344
 equine purpura hemorrhagica (EPH), 129, 341–342
 equine viral arteritis (EVA), 342–343
 Vasopressin response test, 234
 Vena cava syndrome, 157–158
 Ventricular fibrillation, 199
 Ventricular premature depolarizations, 197–199
 Ventricular septal defect (VSD), 174–175
 Verrucose dermatitis, 313
 Verrucose dermatitis, 385, 407–408
 Verrucose equine sarcoid, 410, 411
 Vertebral body abscess, 270–271
 Vertebral osteochondrosis, 308
 Very low density lipoproteins (VLDLs), 100
 Vesicular exanthema, 41, 5
 Vesicular stomatitis, 2–4, 41
 Viral encephalitis, equine, 260–261
 Viral enteritis, 32
 Viral infections (see also specific disorders)
 bluetongue, 6, 116
 bovine
 bovine leukosis, 66–67
 bovine malignant catarrh (BMC, malignant catarrhal fever), 60, 125, 128
 bovine papular stomatitis (BPS), 7
 bovine ulcerative mamillitis (BHV-2), 384
 bovine virus diarrhea (BVD, pestivirus), 58–60, 64, 126, 141
 cowpox, 383
 pseudocowpox, 383–384
 rinderpest, 60–61
 caprine arthritis-encephalitis (CAE), 269, 317, 429
 goatpox, 384
 coronavirus diarrhea, 70–71
 with cutaneous manifestations, 385
 dermatologic
 bovine ulcerative mamillitis (BHV-2), 384
 contagious ecthyma (viral pustular dermatitis, sore mouth, orf), 6–7, 116, 384
 cowpox, 383
 equine viral papular dermatitis, 384
 goatpox, 384
 herpespox, 384
 ovine viral ulcerative dermatitis, 384

- pseudocowpox, 383-384
 sheepox, 384
 swinepox, 384
 equine
 equine herpesvirus 1 (EHV-1), 268
 equine infectious anemia (swamp fever), 326-327
 equine viral arteritis (EVA), 342-343
 horsepox, 384
 respiratory, 117-123
 Theiler's disease (equine serum hepatitis), 97-98
 viral papular dermatitis, 384
 foot and mouth disease (Aphthovirus), 4
 hemagglutinating encephalomyelitis virus (HEV, vomiting and wasting disease), 80-81
 immune deficiency induced by, 352
 wine
 wine viral ulcerative dermatosis, 384
 sheepox, 384
 porcine, swinepox, 384
 mtavirus, 70, 80
 stomatitis, 41
 vesicular exanthema, 5
 vesicular stomatitis (VSV infection), 3-4, 41
 vs. pericarditis, 201
 Visceral caseous lymphadenitis (CLA), 88
 Vitamin A
 deficiency (hypovitaminosis A), 262, 408
 toxicity (hypervitaminosis A), 262, 308
 Vitamin B₁₂
 in bovine ketosis, 218
 deficiency, 339-340
 Vitamin B₁, in hepatic encephalopathy, 97
 Vitamin D, 309
 deficiency, 308
 supplementation, 215
 toxicity, 242
 Vitamin E deficiency, 109, 206-207, 301-302
 Vitamin K, in hepatic encephalopathy, 97
 Vitamin-K-dependent factor inhibition, 345-346
 by sweet clover, 345
 by warfarin, 346
 VLDLs, 100
 Volvulus
 abomasal, 50-51
 cecal (cecal dilation), 52-53
 Vomiting and wasting disease of swine (HEV), 80-81
 VSD (ventricular septal defect), 174-175

W
 Warbles (*Hypoderma* infestation), 399-400
 Warfarin toxicosis, 346
 Warts, 408-409
 hairy heel (strawberry foot rot, digital dermatitis), 311-312, 388
 Water deprivation (salt poisoning), 254
 Water intoxication, 337-338
 Wave mouth, 9
 Weaning, 145
 Weight loss
 in Cushing's disease, 232
 equine, 34-36
 in abdominal abscess, 36
 chronic eosinophilic gastroenteritis, 34
 granulomatous enteritis (lymphocytic-plasmacytic enteritis), 34
 lymphosarcoma, 343-35
 in parasitic disease, 35-36
 in hepatobiliary disorders, 94
 in parasitic pneumonia, 152
 in primary protein energy malnutrition (starvation), 221-222
 in renal disease, 359
 in sheep and goats, 87-88
 abomasal emptying defect in
 Suffolk sheep, 88
 paratuberculosis (John's disease), 87-88
 visceral caseous lymphadenitis (CLA), 88
 Wenckebach (Mobitz type II) block, 188-189 (see also Cardiac dysrhythmias)
 White muscle disease, 206-207, 301-302
 Wildebeest, as carrier of alcelaphine BMC virus, 60
 Wind colic (tympany, bloat, flatulent colic), 25-26
 Winter dysentery, 62
 Wobblers (CVM, cervical vertebral malformation, cervical stenotic myelopathy), 264-265
 Wolf teeth, 8
 Wooden tongue (actinobacillosis), 23, 11
 Wood's lamp examination, 376
 Worms (see Parasitic infections)

X
 Xylazine, 22, 96

Y
 Yeast infections
 bovine mastitis, 427
 stomatitis, 3
 Yellow lamb disease, 334-335
 Yellow star thistle (*Centaurea solstitialis*) toxicity, 261-262
 Yorkshire pigs, 248

Z
 Zinc deficiency, 382
 Zinc sulfate turbidity (ZST) test, 450
 Zoonotic potential
 fungal dermatoses, 390-391
 in giardiasis, 71
 of *Mycobacterium bovis*, 427
 of pseudocowpox (milkier's nodules), 384-385
 of streptococcal mastitis, 420
 of udder impetigo, 386-387
 of vesicular stomatitis, 3

